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Runabout ATR™

4200ATR Light Utility Vehicle

All Terrain Runabout

20920

Pictured with optional accessories: Back Screen, Rear Rack, Front Rack, Brush Guard, Front Winch, Roller Hawse, Grab Light, and Gun Case.

710-040M

Operator's Manual

Land Pride

Read the Operator's manual entirely. When you see this symbol, the subsequent instructions and warnings are serious - follow without exception. Your life and the lives of others depend on it!

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Cover photo may show optional equipment not supplied with standard unit.

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Printed in the United States of America.

Land Pride welcomes you to its growing family of new product owners. This All Terrain Runabout is a light utility vehicle that has been designed with care and built by skilled workers using quality materials. Proper set-up, maintenance and safe operating practices will help you get years of satisfactory use from this vehicle.

Safety First

Land Pride is fully aware of the need for safe operating procedures around all of our equipment. We hope you will make a sincere effort to put safety above all other priorities. The 4200ATR was designed and built for work, recreation, and enjoyment; however, improper and irresponsible operation could result in serious injury or death. Since this is an off-road vehicle, operators will seldom see the road safety and warning signs they are accustomed to seeing on highways and public streets. This places additional responsibility on the driver to operate this vehicle well within the safe operational limits and capabilities of the unit.

This manual has been prepared to instruct you in the safe and responsible operation of your 4200ATR. Please read and abide by all safety alert information about this vehicle. If you do not understand any part of this manual, contact your local dealer for additional information and clarification. As the operator of this piece of equipment, you are in complete control. Only you can prevent an accident from happening!

Using This Manual

- Prior to any vehicle operation it is absolutely essential that you read and comprehend each section in this manual to develop an understanding of your vehicle and for your safety. After reviewing this manual, store it in a dry and easily accessible place for future reference.
- The Operator's Section is designed to help familiarize you with safety, assembly, operation, adjustments, troubleshooting, and maintenance. Read this manual and follow the recommendations to help ensure safe and efficient operation.
- The information contained within this manual was current at the time of printing. Some parts may change slightly to assure you of the best performance.
- To order a new Operator's or Parts Manual contact your authorized dealer. Manuals can also be downloaded, free-of-charge from our website at www.landpride.com or printed from the Land Pride Service & Support Center by your dealer.

Terminology

Right-hand and left-hand as used in this manual are determined by facing the direction the vehicle will travel while in use unless otherwise stated.

Definitions

The following terms are used throughout this manual.

IMPORTANT: A special point of information related to its preceding topic. Land Pride's intention is that this information should be read and noted before continuing.

NOTE: A special point of information that the operator must be aware of before continuing.

Application

Models Covered

4200ATR

Getting Acquainted with your ATR

This (ATR) All Terrain Runabout is a very unique vehicle designed exclusively ***for off-road use***. It is not designed, properly equipped, or licensed to be safely operated on public streets and highways. This vehicle is designed to carry two people and a limited amount of gear or cargo comfortably and safely over rough terrain that was only accessible by ATV's in the past.

Unlike ATV's that have handlebar steering, the 4200ATR has a steering wheel with easy handling rack-and pinion steering. The steering's tight turning radius makes this vehicle more maneuverable than most ATV's. Its four wheeled independent suspension, large diameter hi-flotation tires and high center-frame ground clearance adds up to excellent stability and a smooth ride over rough terrain. Outstanding two wheeled rear traction drive is achieved by using premium off-road ATV type tires in tandem with the engine mounted directly over the rear differential.

Also unlike an ATV's one person "straddle saddle" seat, the 4200ATR sports dual high-back cushioned bucket seats with seat belts mounted in a highly styled and protective full length body. Two passengers can ride comfortably in this vehicle protected from splashing water and mud. A Four-Post Accessory Bar mounted to the vehicle's frame provides protection against low hanging limbs and briars.

The Four-Post Accessory Bar also provides a mounting system for Land Pride's optional windshields, canopy tops, and weather enclosures. It also serves as a mounting base for Land Pride's optional cargo racks, gun and bow racks, and back screen for transporting accessories such as camping equipment, tree stands, hunting gear, and fishing gear. A standard receiver-type receiver hitch enables quick installation of a rear hitch for pulling small trailers full of supplies, tools, gear, and game.

The 4200ATR does have some similarities to an ATV. Like an ATV the 4200ATR does have a short wheelbase, narrow stance, and high center clearance all which provide for narrow and difficult trail access. This combination of short wheelbase and narrow stance also enables this vehicle to be loaded in the back of most full to mid-sized pickups for transport.

The ATR has very low ground compaction and is very gentle on the ground and surrounding vegetation. The highly energized four wheeled independent suspension system provides an incredibly soft ride and outstanding stability over difficult terrain. The engine is EPA certified and meets California Air Resources Board (CARB) certification standards. When you also consider the fact that it takes two ATV's to safely haul two people that one ATR can haul, the 4200ATR is downright "Environmentally Friendly". Remember, when trying to get to that off-road site with or without a companion for either work or recreation, Land Pride's 4200ATR makes getting there and back safely "the best part of the trip".

Owner Assistance

The safety video should be viewed by the owner and the Warranty Registration card should be filled out by the dealer at the time of purchase. The owner should also receive a copy of the safety video upon purchasing the vehicle as well as have participated in a short drivers training course with the dealer. This information is necessary to provide you with quality customer service.

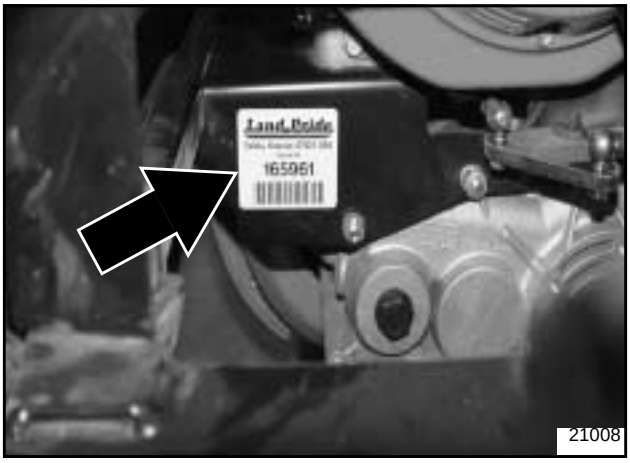
The parts on your 4200ATR Light Utility Vehicle have been specially designed and should only be replaced with genuine Land Pride parts.

If customer service or repair parts are required contact a Land Pride dealer. They have trained personnel, genuine repair parts and equipment specially designed to repair Land Pride products.

Serial Number Plate

Refer to Figure 1

Always use the serial and model number when ordering parts from your Land Pride dealer. The serial-number plate is located on the passenger's side just below the engine serial number on the engine mounting plate as shown in figure 1 below.



Serial Number Plate Location
Figure 1

Record your ATR model number and serial number here for quick reference:

Model Number:_____

Serial Number: _____

Your Land Pride dealer wants you to be satisfied with your new vehicle. If you do not understand any part of this manual or are not satisfied with the service received, please take the following actions.

1. Discuss the matter with your dealership service manager. Make sure they are aware of any problems so they can assist you.
2. If you are still unsatisfied, seek out the owner or general manager of the dealership.
3. For further assistance write to:

Product Support

Land Pride Service Department
1525 East North Street
P.O. Box 5060
Salina, Ks. 67402-5060

E-Mail Address
lpservicedept@landpride.com

IMPORTANT: Read and understand all pages in this manual thoroughly before operating your ATR.

These are common practices that may or may not be applicable to the products described in this manual.

Look For The Safety Alert Symbol

The SAFETY ALERT SYMBOL indicates there is a potential hazard to personal safety involved and extra safety precaution must be taken. When you see this symbol, be alert and carefully read the message that follows it. In addition to design and configuration of equipment, hazard control and accident prevention are dependent upon the awareness, concern, prudence and proper training of personnel involved in the operation, transport, maintenance and storage of equipment.

Be Aware of Signal Words

A signal words designate a degree or level of hazard seriousness. The signal words are:

DANGER

DANGER indicates an imminently hazardous situation which, if not avoided, will result in serious or death injury. This signal word is limited to the most extreme situations, typically for vehicle components that, for functional purposes, cannot be guarded.

WARNING

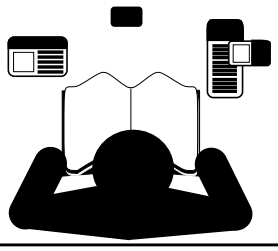
WARNING indicates a potentially hazardous situation which, if not avoided, could result in death or serious injury, and includes hazards that are exposed when guards are removed. It may also be used to alert against unsafe practices.

CAUTION

CAUTION indicates a potentially hazardous situation which, if not avoided, may result in minor or moderate injury. It may also be used to alert against unsafe practices.

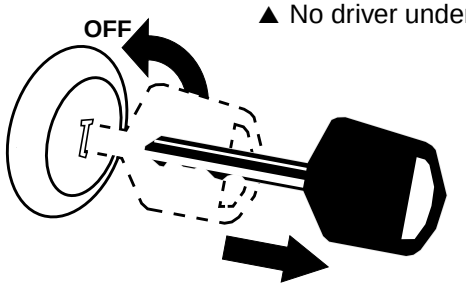
For Your Protection

- ▲ Thoroughly read and understand the instructions given in this manual before operation. Refer to the “Safety Label” section, read all instructions noted on the decals.
- ▲ Do not allow anyone to operate this equipment who has not fully read and comprehended this manual and who has not been properly trained in the safe operation of the equipment.



Before Operating

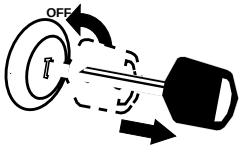
- ▲ This All Terrain Runabout Light Utility Vehicle is not to be driven on public roads.
- ▲ Do not operate this vehicle under the influence of alcohol or drugs.
- ▲ Always inspect the vehicle before operating it. See "Pre-Start Check List" on page 14.
- ▲ Do not operate this machine unless all safety shields are in place and all badly worn, broken or missing parts have been properly replaced.
- ▲ Wear appropriate protective gear and clothing such as safety helmet, goggles, gloves, coveralls, etc., when conditions warrant.
- ▲ No driver under age of 16.

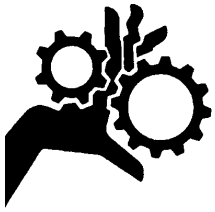


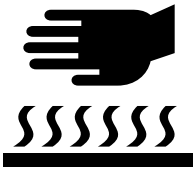
These are common practices that may or may not be applicable to the products described in this manual.

Practice Safe Maintenance

- ▲ Understand procedure before doing work. Use proper tools and equipment. Refer to this manual for additional information.
- ▲ Work in a clean, dry area.
- ▲ Place the vehicle in neutral, set parking brake, turn off engine, and remove key before performing maintenance. Chock wheels if you must perform maintenance on a slope.
- ▲ Make sure all moving parts have stopped and all system pressure is relieved.
- ▲ Allow the engine to cool completely.
- ▲ Disconnect battery ground cable (-) before servicing or adjusting electrical systems or before welding.
- ▲ Inspect all parts. Make sure parts are in good condition and installed properly.
- ▲ Remove buildup of grease, oil or debris.
- ▲ Remove all tools and unused parts from the All Terrain Runabout before operation.

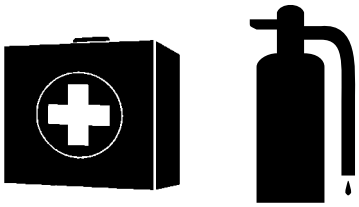






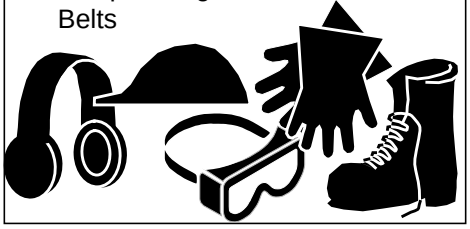
Prepare for Emergencies

- ▲ Be prepared if a fire starts.
- ▲ Keep a first aid kit and fire extinguisher handy.
- ▲ Keep emergency numbers for doctor, ambulance, hospital and fire department near phone.



Wear Protective Equipment

- ▲ Wear protective clothing and equipment.
- ▲ Wear clothing and equipment appropriate for the job. Avoid loose-fitting clothing.
- ▲ Because prolonged exposure to loud noise can cause hearing impairment or hearing loss, it is best to wear suitable hearing protection such as earmuffs or earplugs.
- ▲ Because operating equipment safely requires your full attention, avoid wearing radio headphones while operating machinery.
- ▲ It is the discretion of the operator and passenger to wear Seat Belts



Tire Safety

Tire changing can be dangerous and should be performed by trained personnel using correct tools and equipment.

- ▲ When inflating tires, use a clip-on chuck and extension hose long enough for you to stand to one side–not in front of or over tire assembly. Use a safety cage if available.
- ▲ When removing and installing wheels, use wheel-handling equipment adequate for weight involved.

Safe Operating Procedures

The safe operation of any machinery is a big concern to all consumers. Your 4200ATR has been designed with many built-in safety features. However, no one should operate this vehicle before carefully reading this Operator's Manual. Also read all instructions noted on the safety decals.

WARNING

Most accidents with off road vehicles occur when traveling up, down, or across the face of a slope. Refer to operation instructions and safety video for proper operation procedures.

- ▲ Be familiar with all functions of this vehicle.
- ▲ Keep all bystanders away from this vehicle during operation.
- ▲ Do not allow anyone to operate this vehicle who has not fully read and comprehended this manual and who has not been properly trained in the safe operation of this vehicle.
- ▲ Do not operate a vehicle with damaged or defective parts. Repair all damages and defective parts before putting vehicle back in to service.
- ▲ Do not allow anyone under 16 years of age to operate this vehicle.
- ▲ Operator must always use both hands on the steering wheel.
- ▲ No riders allowed except in factory designed and supplied seating. No more than one person in a seat. Maximum vehicle occupancy including driver is 2.
- ▲ Operate this vehicle from the driver's seat only.
- ▲ Do not leave this vehicle unattended with engine running.
- ▲ Do not dismount a moving vehicle as serious injury or death could occur.
- ▲ Always operate vehicle with belt guard installed. Do not leave pulleys and belts exposed.
- ▲ Do not touch engine, engine exhaust pipe and/or muffler while they are hot.
- ▲ Keep hands, feet, long hair, clothing, and jewelry away from moving parts and obvious pinch points to avoid getting caught.
- ▲ Wear snug-fitting clothing to avoid entanglement with moving parts.
- ▲ Some conditions may warrant extra safety gear to be worn such as safety helments and/or goggles.
- ▲ Keep hands, arms, feet and all bodily appendages safely inside the confines of the vehicle.
- ▲ Always be aware of and avoid tree limbs and brush that have a potential of hitting and/or poking individuals riding the vehicle. Serious body harm could result.
- ▲ Avoid sudden stops, starts and turns.
- ▲ Always operate your vehicle at a safe speed that will allow you to maintain control.
- ▲ Operator and passenger are responsible for deciding if their situation warrants using Seat Belts.
- ▲ Do not exceed total payload capacity of this vehicle.
- ▲ Do not pull a trailer or implement exceeding 400 pound towing capacity or loss of control may result.
- ▲ Do not attach an implement, trailer or other device to the hitch that will produce negative tongue weight.
- ▲ Follow all towing instructions in this manual when towing the ATR behind another vehicle. Do not tow vehicle faster than 25 MPH.
- ▲ Do not use the vehicle as an anchor device.
- ▲ Beware, tow ropes, cables and chains can break when pulling another vehicle or object causing serious injury or death to anyone in line with the whipping action created when they break. Never jerk when pulling, always ease into a pull gently. Always stay clear of the tow line. Never be in line with the tow line.
- ▲ Reduce speed when loaded with cargo. Heavy cargo load takes longer to stop.
- ▲ Reduce speed and payload on hilly, rough, wet, slick or unstable ground.
- ▲ Always make turns at a speed that will maintain control of vehicle. Never make turns at full speed. Reduce speed when turning empty and reduce speed even more when turning loaded with cargo or when pulling a cargo load. The heaver the cargo load, the slower the turn should be.
- ▲ Make sure all gear or cargo is properly secured and tied down.
- ▲ Do not exceed front cargo rack capacity of 160 lbs. and rear cargo rack capacity of 40 lbs.
- ▲ Do not mount a receiver hitch type carrier platform to the vehicle.
- ▲ Do not load the Four-Post Accessory Bar with heavy equipment. Rollover could result from such loading.
- ▲ The Four-Post Accessory Bar is not certified ROPS (Roll Over Protection System). Always avoid rollovers.
- ▲ Do not operate this vehicle on highways, public roads, or where it may be a hazard to faster moving traffic.
- ▲ Do not operate this vehicle while drinking or under the influence of alcohol and drugs.

Section 2 Important Safety Information

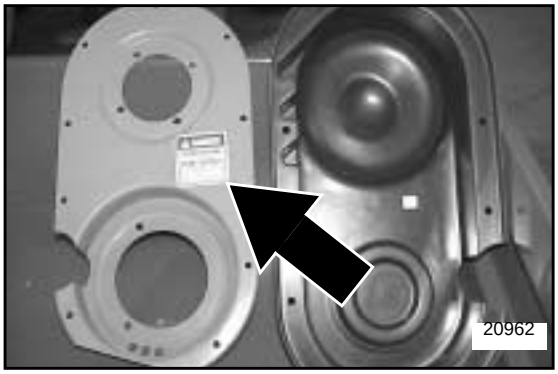
- ▲ Never attempt wheelies, jumps, or other stunts. Never drive recklessly. Always operate your vehicle at a safe speed that will allow you to maintain control.
- ▲ Never use vehicle for racing and never modify the engine to exceed 25 MPH vehicle speed.
- ▲ Never modify any parts on the vehicle without authorization. Unauthorized modifications will void warranty to all parts directly and indirectly affected by the modification.
- ▲ Always make sure the vehicle pathway is clear of all objects when backing up. Know location of personnel around vehicle and especially location of small children. Take extra precautions when rear view is hindered by cargo.
- ▲ Always park on level ground, stop engine, set park brake (see “Park Brake Lever” on page 15) and remove ignition key before leaving the vehicle. Chock tires if condition warrants.
- ▲ Use extreme caution when cresting hills or when visibility is limited. Proceed slowly until you are sure trail conditions immediately ahead are safe.
- ▲ Keep front wheels straight when cresting hills or going over bumps.
- ▲ Do not stop, start suddenly or over accelerate on hills. Loss of control and rollover could result.
- ▲ Use extreme caution when descending hills or running on loose slippery surfaces. Towing, braking, and tractive capabilities are greatly diminished.
- ▲ Do not operate vehicle on 15 degree slopes or steeper.
- ▲ Avoid changing direction or making sharp steering corrections on slopes or rollover may occur.
- ▲ If this vehicle begins to tip when crossing a slope, turn the front wheels downhill to regain stability and control.
- ▲ When crossing a slope on soft terrain, turn the front wheels slightly uphill and maintain a constant speed to maintain a straight line of travel.
- ▲ When descending hills or slopes apply steady pressure to the foot brake to avoid potential of freewheeling or runaway.
- ▲ Never allow vehicle to coast or free wheel in neutral or loss of control may result.
- ▲ If your vehicle loses power and stops on a hill, immediately engage the foot brake and back slowly down the hill maintaining a straight downhill line of travel. Do not attempt to turn the vehicle sideways on the hill or a rollover could result.
- ▲ When travelling at night always use your headlights and reduce speed according to visibility, trail and terrain conditions.
- ▲ Avoid water crossings when possible and never cross a body of water where depth is unknown. Loss of power will occur if the drive belt becomes submerged or wet. Unnecessary crossing of streams and waterways erodes shore line and damages water-born habitat. If you must cross, do it at a point where banks are not steep and proceed at a slow and steady speed.
- ▲ Front bumper and brush guards are not designed as pusher bars. Do not attempt to push other vehicles or implements or damage may result.
- ▲ When refueling use an (UL) approved non-metallic container that has no screen or filter. Set the container on the ground before fueling to eliminate static discharge and do not use Methanol fuel.
- ▲ Do not smoke or use electrical devices including cell phones while refueling.
- ▲ Always maintain proper tire inflation. See "Tire Maintenance" on page 19.
- ▲ Always disconnect the negative battery terminal before making adjustments to the vehicle electrical system or welding on this vehicle.
- ▲ Battery fumes are explosive. A spark will ignite battery fumes. Wear a face shield when charging or jumping a battery. Follow all battery safety rules outlined in this manual.
- ▲ Avoid battery acid spills. Do not get battery acid on eyes, face, or other body parts. Flush eyes and other body parts immediately with water for at least 15 minutes if battery acid has gotten on them.
- ▲ Always check wheel lug nut torque values two hours after initial operation and two hours after each tire repair and/or replacement. Routinely check lug nut torque valves every 100 hours of operation. See "Wheel Lug Nuts" on page 19.
- ▲ Support this vehicle securely before working beneath. Chock the wheels to prevent the vehicle from rolling.
- ▲ Do not shift transfer case unless this vehicle is fully stopped and the engine is at idle or damage may occur.

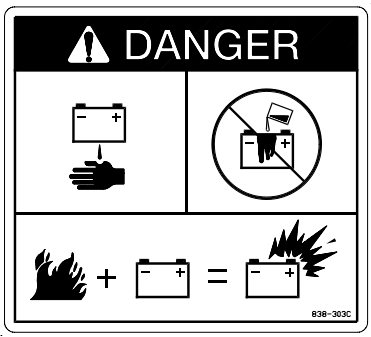
Safety Decals

1. *Your 4200 All Terrain Light Utility Vehicle comes equipped with all safety decals in place. They were designed to help you safely operate this vehicle and to serve as a reminder to keep safety uppermost in your mind. Read and follow decal directions.*
2. *Keep all safety decals clean and legible.*
3. *Replace all damaged or missing decals. Order new safety decals through your Land Pride dealer.*
4. *Some new equipment installed during repair requires safety labels to be affixed to the replaced component as specified by Land Pride. When ordering new parts or components, also request corresponding safety decals.*
5. *Refer to this section for proper label placement. Install new decals as follows*
   a. *Clean the area on which the decal is to be placed.*
   b. *Spray soapy water on the surface where the decal is to be placed.*
   c. *Peel backing from decal. Press firmly on surface, being careful not to cause air bubbles under decal.*
   d. *Squeeze out air bubbles with the edge of a credit card.*

818-543C

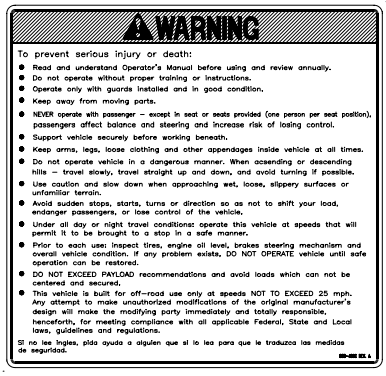
Danger: PD Guard Missing





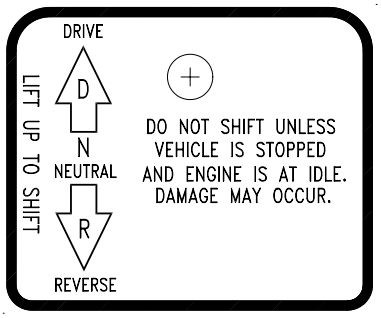
838-303C

Danger: Battery (Located behind front grill)



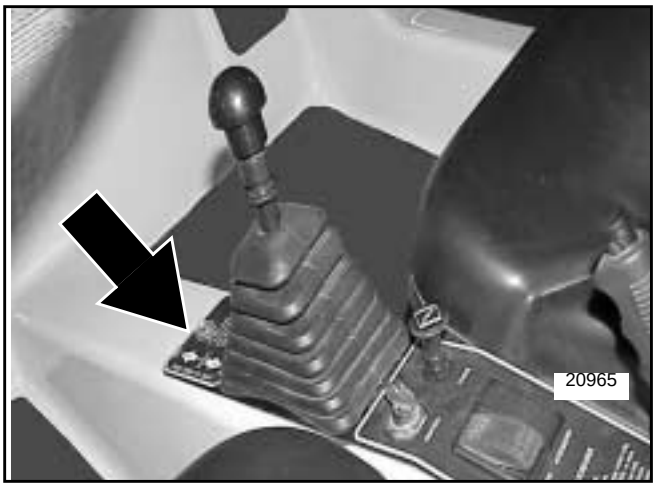
838-486C

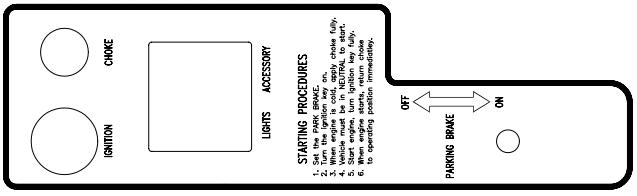
Warning: General Utility Vehicle



838-487C

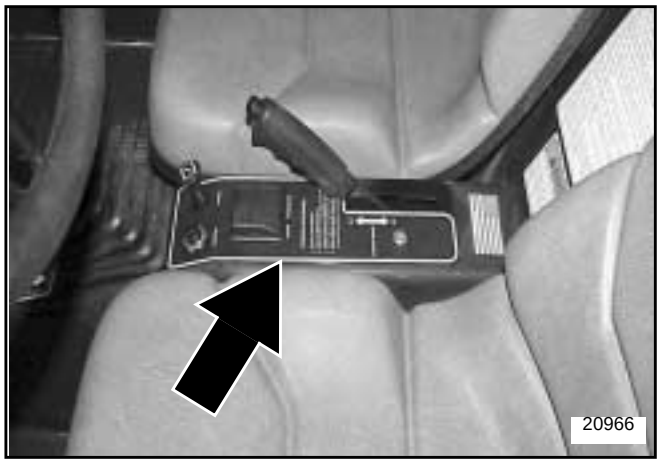
Control Panel/Gear Shift





838-488C

Control Panel/ Park Brake

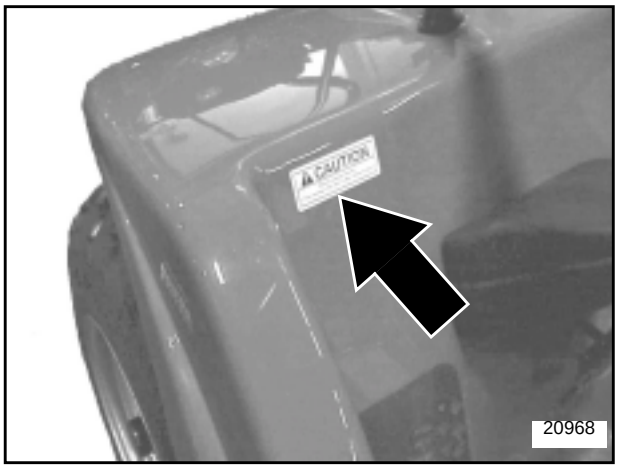


838-489C

Warning: Rollover Hazard

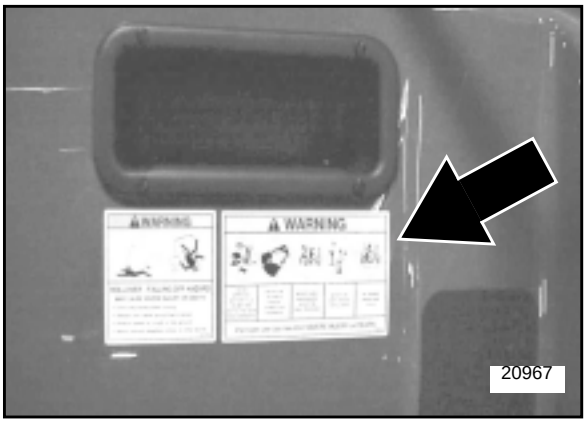
838-490C

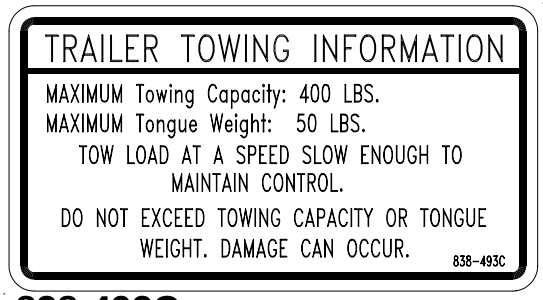
Caution: Stop Engine



838-491C

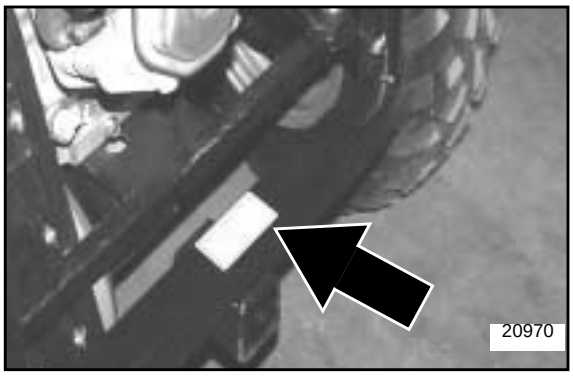
Warning: Improper Use





838-493C

Trailer Towing Information

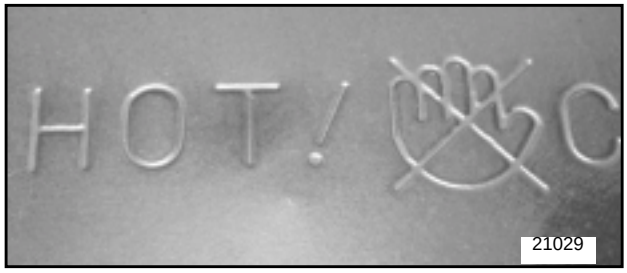


838-494C

Warning: (GVW) Load Rating

838-508C

Warning: Before Filling Tank with Gasoline



Muffler Warning!

Hot and a crossed out pictorial hand for do not touch are embossed in engine muffler shield.

Warning Label Included with Seat

Warning: Check Seat mounting

Each vehicle must undergo a Pre-Delivery Inspection by the Dealer. Listed below is an example of the checklist that is included with the Warranty Registration that is to be submitted to Land Pride upon Retail Sale. The Pre-Delivery Certificate and Warranty Registration must be submitted to Land Pride in order to activate the vehicle warranty.

Pre-Delivery Certificate

The dealer is required to complete Land Pride's "Certificate of Light Utility Vehicle Pre-Delivery" form before customer may take possession of the vehicle. The form information must be filled in and check list checked off or initialed by individuals performing the checks. Dealership's name, signatures of individuals filling in the form, seller's signature, customer's signature, and signing dates are also required before the form is returned to Land Pride. Below is a list of the information found in the form that is required to be completed and checked off.

Vehicle Information

Model No. _____

Date _____

Serial No. _____

Engine Serial No. _____

Dealer Service and Inspection List

___Fully charge battery. Check battery voltage to verify that it is fully charged.

___Connect negative battery cable. (Negative battery cable is disconnected before leaving the factory and is to be disconnected after initial dealer set-up to prevent battery discharge while setting on the dealer lot.)

___Check fuel valve lever to make sure it is in the correct position. See "Engine Fuel Valve Lever" on page 23 for additional information.

___Check Battery voltage and recharge if required.

___Check tire pressure to make sure front and rear tires have 7 psi.

___Make sure wheel lug bolts/nuts are tightened to 90 Newton meters/(65ft. lbs.).

___Check Master Cylinder to make sure it is filled.

___Check engine oil level at the dipstick. Add SAE 10W30 oil if oil is below the full mark on the dipstick.

___Check engine for correct RPM. Set to factory specification if needed.

___Check Tie Rods for tightness

___Check Choke Control. It should move and return freely.

___Step on foot brake to make sure there is plenty of pedal and that brakes hold pressure and do not bleed off. Add brake fluid and bleed brakes if required.

___Make sure seats and seat belts are properly fastened to the frame.

___Make sure all safety decals are in place.

___Check headlights to make sure they are working and are properly mounted.

___Check tail lights and brake lights to make sure they are working and are properly mounted.

___Inspect air cleaner element. Make certain it is clean and in place.

___Inspect the fuel tank to make sure it is properly installed and that there are no leaks.

___Check fuel level to make sure there is at least 1/8 of a tank of gas prior to performing initial starting operations.

___Inspect fuel lines to make sure they are properly installed and that there are no leaks.

___Check steering by executing a full lock to lock turn in each direction.

___Check park brake to make sure it will engage, hold and release.

___Make sure neutral start feature is working by trying to start the unit while the shifter is located in the forward and reverse positions.

___Check throttle control to make sure it moves and returns freely.

___Check differential oil level at the differential oil plug. Add 80/90 gear lube if oil is below oil plug outlet.

___Check overall appearance for cleanliness and for body and molding damage.

Dealer Test Ride List

___Check engine for starting, accelerating, running smooth, and idling smoothly.

___Check steering response. There should be no free-play.

___Check forward, neutral, and reverse shifting response. Also check neutral start response.

___Check park brake to make sure it engages, holds, and disengages.

___Make sure rocker switches are all working.

___Make sure throttle is responsive and returns freely.

___Make sure the suspension ride is satisfactorily and stable.

___Make sure there are no fuel or petroleum leaks.

___Make sure the foot brake has a firm engagement and that stopping is straight.

___Make sure there are no bad rattles or vibrations.

Dealer Delivery To Customer List

___Warranty registration form is complete.

___Owner's Manual has been delivered to and reviewed by the customer.

___Engine Manual has been delivered to and reviewed by the customer.

___Warranty Policy limits and requirements have been explained to the customer.

___Customer has reviewed the safety video.

___Location and functions of vehicle controls have been explained.

___Fuel transportation and storage procedures have been explained.

___Fluid fill and lubrication points have been located and explained to the customer.

___Customer has completed the driving course.

___Information on the safety decals have been reviewed with the customer.

Customer Acceptance List

Customer initials required where accepted as successfully completed

___Customer has reviewed and understand Land Pride warranty policy (ies).

___Customer has inspected the vehicle and it meets to customer satisfaction.

___Customer understand the importance of following the owner's manual instructions.

___Customer has completed the Land Pride safety training course.

Operator Responsibilities

WARNING

*It is the operator's responsibility to have read this manual thoroughly and to know how to operate this vehicle safely in all situations. See "**Section 2 Important Safety Information**" starting on page 3*

Pre-Start Check List

- Lubricate the vehicle as indicated in the Lubrication portion of **"Section 7 Lubrication"** starting on page 27.
- Check tire pressure as indicated in the **"Tire Inflation Chart"** on page 19.
- Make sure wheel lug bolts/nuts are tightened to 65ft. lbs.
- All nuts, bolts, screws, and fasteners should be checked. Refer to the Torque Value Chart in **"Section 13 Appendix"** starting on page 39.
- Turn on headlights to make sure battery has a charge and electrical lighting circuit is working.
- Check tail lights and brake lights.
- Step on foot brake to make sure there is plenty of pedal and that brakes hold pressure and do not bleed off. Add brake fluid as indicated in **"Master Cylinder Brake Fluid"** on page 29 and bleed brakes if required.
- Check park brake to make sure it will engage, hold and release.
- Check steering by executing a full lock to lock turn in each direction.
- Check to make sure neutral start feature is working by trying to start the unit while the shifter is located in the forward and reverse positions. (Unit should not start.)
- Check engine oil level at the dipstick. Add oil as indicated in **"Engine Oil"** on page 27 if oil is at or below the add mark on the dipstick.
- Check differential oil level at the differential oil plug. Add gear lube as indicated in **"Transfer Case Oil"** on page 28 if oil is below oil plug outlet.
- Check fuel valve lever position. Valve lever should be off except when running the engine. See also "Engine Fuel Valve Lever" on page 23.
- Check fuel level to make sure there is at least 1/8 of a tank of gas prior to performing initial starting operations.
- Make sure low engine idle speed is set between 1250 and 1350 rpm and that maximum engine static speed does not exceed 3800 rpm. ***Modifying or adjusting the carburetor to increase vehicle speed above factory set specification is a safety violation and could result in voiding the warranty***.

General Operation

DANGER

Avoid injury or death from entanglement in the rotating beltline. All shields must be in place and secure when operating. Keep all persons away from rotating driveline.

Start the ATR by following the starting procedures displayed at the gearshift lever and as noted below.

1. Depress brake pedal with your foot and hold. Pull firmly up on the park brake lever with your hand until the lever is tight.
2. Place gearshift in neutral. Engine will not start with vehicle in gear.
3. Apply choke fully when engine is cold.
4. Turn ignition key fully clockwise and hold until engine starts.
5. Release ignition key to run position and choke to normal operating position immediately after engine starts.
6. Turn ignition key counterclockwise to stop engine.

Driving an ATR is as easy as driving a car with an automatic transfer case. A simple forward and reverse shifter provides direction control. A neutral start feature and keyed 12 volt electronic ignition makes for safe and easy starting. We have provided a manual choke control on the console for quick cold weather starting. There is a back-up pull-rope starter mechanism on the engine just in case you accidentally leave the key on and run the battery down. The infinitely variable torque converter drive system means there is no clutching. You just shift into either forward or reverse when the vehicle is stopped and step on the throttle pedal to go at speeds up to 25 mph. Never shift while the vehicle is moving. The unit will only start when the shift lever is in neutral position.

Braking is accomplished by simply depressing the automotive style brake pedal located on the floorboard. This activates the rear automotive type hydraulic drum brakes. A lever action parking brake control is mounted on the center console located between the operator and passenger seats. Depress the top mounted button on the park brake control lever to release the park brake.

Floor Controls

Refer to Figure 4-1

#1 **Brake Pedal:** Applying pressure to the brake pedal instead of the accelerator pedal with your foot will slow down and/or stop the vehicle. Riding or resting your foot on the pedal unnecessary will wear the brakes out prematurely.

#2 **Accelerator Pedal:** Changes engine rpm and vehicle ground speed. Press down on the accelerator pedal with your foot to increase speed and let up on the pedal to decrease speed. Vehicle should not move when engine is idling. Adjust engine idle speed if vehicle moves while accelerator pedal is not being depressed.

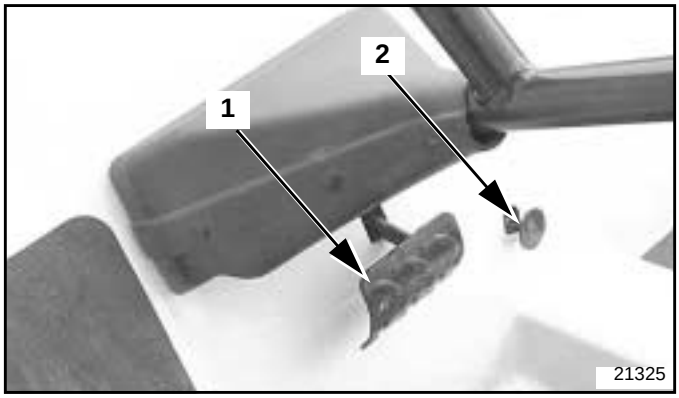


Figure 4-1

Center Console Controls

Refer to Figure 4-2

#3 **Gear Shift Lever:** Changes transmission gears from neutral to forward or reverse. Always start engine in neutral.

- Pull up on gear shift collar and push lever all the way forward to place transmission in forward gear.
- Pull up on gear shift collar and move lever to center position to place transmission in neutral.
- Pull up on gear shift collar and pull lever all the way back to place transmission in reverse gear.

#4 **Choke Control:** Used to choke the engine when starting. Pull on knob when starting a cold engine. Release knob after engine has started. Do not choke an engine that is hot from operating. Engine flooding may result.

#5 **Light Switch:** Turns on head and tail lights. Press bottom of switch to turn on lights and top of switch to turn off lights.

#6 **Park Brake Lever:** Sets and releases the park brakes. Do not drive vehicle with park brake lever set. Indicator light will illuminate indicating park brake is engaged.

- Set park brakes: Depress the brake pedal down with your foot and hold. Firmly pull-up on the park brake lever until the lever is tight.
- Release park brakes: Depress the brake pedal down with your foot and hold. Pull-up on the park brake lever, depress the release button and push the lever all the way down before letting up on the button.

#7 **Ignition Switch:** Starts and stops the engine. Vertical position is off. Turn switch key clockwise to start engine. See “General Operation” on page 14 for correct vehicle starting procedures.

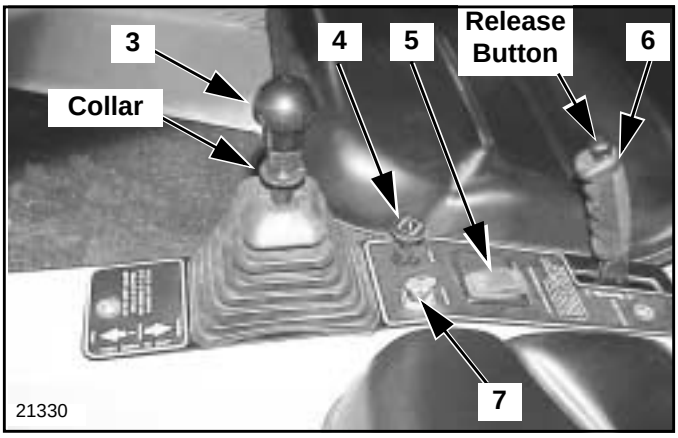


Figure 4-2

Towing the ATR

The ATR is capable of being towed behind a tractor or another vehicle as long as the following precautions are followed:

- The ignition switch must be turned off.
- The gear selector must be locked in neutral position.
- The park brake must be off.
- The vehicle must be towed with a rigid tow-bar that is designed to tow the gross weight of the ATR. See "Section 10 Specifications & Capacities" on page 33 for vehicle gross weight.
- Tow-bar must be securely attached to the ATR at a location that will not damage the vehicle or come loose from the vehicle.
- Owner/user takes on all responsibility and liability resulting from attaching the tow-bar to the ATR and to the vehicle towing the ATR.
- Do not allow anyone to ride in the ATR while it is being towed with a tow-bar.
- Do not tow a trailer or vehicle behind an ATR that is being towed.
- Do not tow vehicle at speeds over 25 mph. The vehicle is designed to travel up to 25 mph. Higher speeds may result in damage to the ATR, vehicle towing the ATR and personnel.
- Slow down when turning to prevent loss of control and rollovers.
- Obey all state and local laws for towing vehicles.

Traveling Tips From the Trail Masters

At Land Pride we want you to get maximum working or recreational enjoyment out of your utility vehicle whether you are using one of our All-Terrain Runabouts or one of our terrain hugging utility trucks. If your work project or recreational adventure is going to take you on an extended ride deep into the wilderness or way out on the prairie, you'll need to seriously consider some of the following tips from experienced pros about safety, gear, clothing, supplies, and driving techniques.

Preparation and Planning

Do a complete equipment check as follows:

1. Make sure you have plenty of fuel and oil to make the trip and then some.
2. Make sure your tires have proper inflation, your lug bolts are tight, and that you have a spare and the tools to change, repair, and inflate a tire. Consider adding a puncture sealant to your tires as a preventative measure.
3. Check for any loose or missing parts and definitely make those needed repairs before going anywhere. It is especially important that you check steering, braking, throttle, electrical and, engine components thoroughly.

Plan Your Route

1. Plan your route, destination, and rendezvous points before starting out.
2. Don't go it alone if at all possible. Taking someone else along reduces the potential for loss of life or major injury to inclement weather, animal attacks, or accidents. Besides, it's more fun when you have someone to share the adventure with.
3. Obtain trail or area maps of your travel routes to and from your destination. Communicate your travel plans to responsible friends and or proper authorities. Plan rendezvous points at conspicuous landmarks along your route just in case you run into unexpected trouble on the trail.
4. Make sure you take a weather radio and two-way communication devices such as cell phones or long range-two way radios. It is also good to have ground flares, a flare gun, a smoke canister, emergency strobe light, a reflecting mirror, matches for a signal fire, and a compass.

Plan Your Gear

1. Plan your gear and gear up for the best and worst of environmental conditions.
2. Check the short and long range weather forecast and take protective gear and clothing to cover all contingencies. It doesn't have to snow for you to fall victim to hypothermia or exposure. Take or wear appropriate eye and head protection, gloves, boots, a long sleeve shirt, long pants, a jacket, rain gear, dry socks, and a full change of dry clothing.
3. Pack a first aid kit, sunblocker, lip balm, insect repellent, personal medications, water, tarp or tent, flash light, survival knife, binoculars, camera, tool kit, rope, duct tape, tow strap, winch or come-along, eating and cooking utensils, and high energy trail food.
4. Tie and lash down your gear and supplies securely. Keep the bulk of the weight centered and mounted as low as possible on the vehicle in order to maintain a low center of gravity for safe and stable off-road travel.

Going Out on the Trail

1. When it's time to hit the trail "take it all in" but do it safely!
2. Make sure you brief your passenger on proper safety procedures like keeping hands, arms, feet, and other bodily appendages inside the vehicle. Passengers should only be transported in factory supplied seating.
3. Operator and passenger are responsible for deciding if their situation warrants using Seat Belts.
4. Avoid operating on excessively steep hills and especially on hills that are steeper than 15 degrees. Avoid crossing slopes if possible and don't make sharp uphill steering corrections or a rollover could result. If your vehicle starts to tip over on a slope turn the front wheels quickly down hill to regain stability and control. The best way to climb most hills is to drive straight up while maintaining a steady ground speed and constant engine rpm. The best way to descend most hills is straight down while using steady pressure on the brakes without locking them up. Locking up the brakes in a steep downhill situation can result in loss of traction, steering' and control. When you must cross a slope on soft terrain, keep the front wheels turned slightly uphill and maintain a constant speed and a straight line of travel.
5. Driving too fast, being inattentive, and turning too sharply on slippery surfaces can result in rollovers and accidents almost quicker than any other ground condition we know of. Snow cover, wet trails, loose gravel, and frozen ground can all contribute to this dangerous condition. In these conditions maintain sharp focus on the trail ahead. Don't make sharp turns and avoid the need for hard braking if at all possible. If you do start to slide turn the front wheels in the direction of the skid to regain control.
6. Avoid paved surfaces. Land pride vehicles are designed exclusively for off-road use only. We understand that occasionally operators have to cross

public roads or right of ways to gain access to work or recreation sites, but don't get in the way of faster traffic and cross quickly and safely.

7. Land Pride Vehicles are capable of making intermittent stream crossings where the depth of the water briefly comes into contact with the bottom of the floorboards, but you must keep these considerations in mind. You must know how deep the water is and the strength of the current. Cross where you have a gradual incline for entry and exit and the bottom is fairly clean and free of obstacles. Maintain a slow steady speed disturbing the stream bed as little as possible. If you submerge the torque converter and drive belt, you will lose forward momentum and power. If you submerge the engine or the whole vehicle, do not attempt to start the vehicle but take it to your nearest dealer immediately. After intermittent stream or shallow water stand crossings, dry out the brake linings and CVT drive belt by slightly accelerating the engine rpm while riding the brakes momentarily until full drive power and braking are restored.
8. Backing up in an off-road situation might seem a simple thing to do to a novice, but having to back down a hill is a very dangerous situation. If you are on level ground always look behind you and back up slowly. If you find yourself having to back down a hill, apply the brakes very lightly. Hard braking can cause total loss of control and a rollover situation. Try to back straight down the hill without turning. Turning in this situation can also cause a rollover.
9. Whenever possible, park your vehicle on a level surface with the transfer case in gear, set the park brake, and remove the key. If you do have to park on a hillside make to sure chock the rear wheels on the downhill side to prevent a roll away. It's a good idea to keep your spare key stashed separately.
10. Never operate a vehicle under the influence of drugs or alcohol. When you're driving off-road vehicles you need to keep your senses keen and capable of quick reaction, sharp perception, and good balance.
11. Working or recreation in the deep wilderness or on the prairies can be personally rewarding and very enjoyable to those who truly love and understand nature and the outdoors. Good judgement, maturity, proper preparation, and planning can turn these adventures into great experiences you'll talk about for a lifetime. Share these adventures with young people whenever you can and show them how to do it right and how to "Tread Lightly". Don't let anyone under 16 operate this vehicle. They just aren't mature and experienced enough to take on the serious responsibility of operating a vehicle in the off-road environment without the benefit of an experienced adult with them. Remember the only one who can prevent and avoid an accident is the operator in control and that's you!

Options

Land Pride offers options that can be added to your ATR.

Bumper Style

Refer to Figure 4-3 and Figure 4-4

The two bumper styles available for your Land Pride ATR are either the basic standard bumper shown in Figure 4-3 or the Brush Guard Bumper shown in Figure 4-4. The Brush Guard offers more protection and is required when adding on a front cargo rack, winch, or roller hawse accessory.

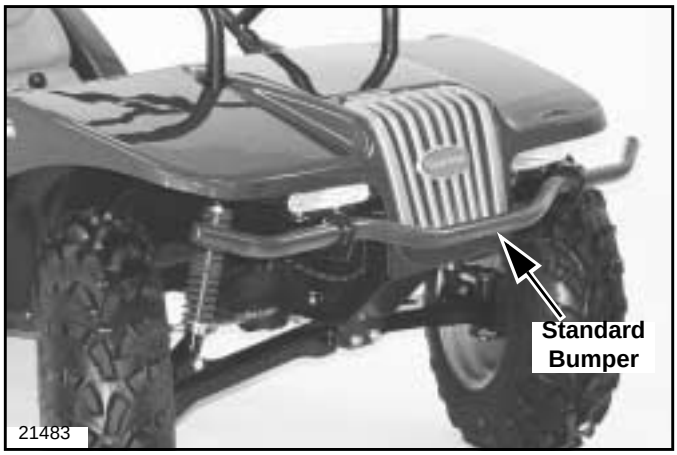
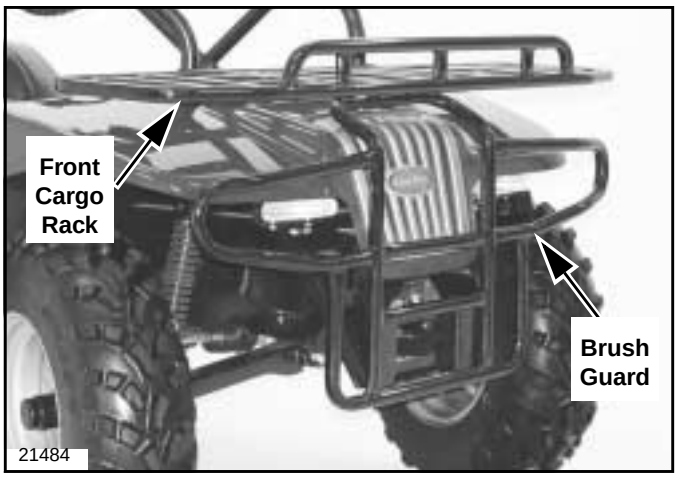


Figure 4-3



Brush guard option shown with front cargo rack
Figure 4-4

Tires

Refer to figure 4-5

There are two types of tires available for your Land Pride ATR. The All Terrain Tire is a good tire to choose when traction is your first priority. This tire is a tough tire for going over rough terrain. The Turf Tire is a good selection when one wants to preserve the terrain being traveled over. Golf courses, parks and other maintained areas make the Turf Tire an excellent choice.

figure 4-5

Accessories

A variety of accessory equipment has been designed to complement your needs and make your Land Pride ATR a very functional and useful vehicle. See your nearest Land Pride Dealer for all accessories available. Accessories available are:

- Floor Mats
- Accessory Bar Pad Kit
- Windshield Kit
- Hard Canopy Top
- Soft Cab Enclosure with Soft Doors
- Back Screen
- Back Screen Head Rest
- Front Rack*
- Front Basket**
- Rear Rack
- Gun Rack
- Rear Reese Hitch
- Fifth Wheel Trailer***
- Power Plug Outlet
- 2,000 lb. Winch
- Roller Hawse
- Mud Flaps
- Front Tire chains
- Rear Tire Chains

* Requires front brush guard to attach.
** Requires front brush guard and front rack to attach.
*** Requires rear Reese hitch to tow.

General Maintenance

WARNING

Read and observe all safety warnings in this manual and in the engine service manual.

WARNING

Except when checking or changing components, always keep protective shields on for safety as well as for cleanliness.

WARNING

Keep engine clean of oil, grease, trash and debris which can cause engine overheating, fires and belt wear. Clean only after the engine has completely cooled. Wear gloves to protect hands from cuts, puncture wounds and burns.

WARNING

DO NOT have engine running when servicing or making adjustments to the vehicle. Shut engine off, place transmission in gear, set park brake and remove ignition switch key for maximum safety.

DANGER

Repairs or maintenance specifically requiring engine power should be performed by trained personnel only. Transmission gear should be set in neutral with tires properly chocked or with drive tires properly supported off the floor. Enclosed areas should be properly ventilated to prevent carbon monoxide poisoning.

DANGER

Exercise extreme caution when working with and around the belt drive. Make certain the engine cannot be accidentally started. Shut engine off and remove ignition switch key for maximum safety. Repairs or maintenance requiring engine power should be performed by trained personnel only.

Regular maintenance is the best prevention for costly downtime or expensive, premature repair. The following pages contain suggested maintenance information and schedules which the operator should follow on a routine basis.

Remain alert for unusual noises, they could be signaling a problem. Visually inspect the ATR for any abnormal wear or damage. A good time to detect potential problems is while performing scheduled maintenance service. Correcting the problem as quickly as possible is the best insurance.

Some repairs require the assistance of a trained service mechanic and should not be attempted by unskilled personnel. Consult your Land Pride dealer when assistance is needed.

Torque Values

Wheel Lug Nuts

WARNING

Particular attention must be given to tightening the wheel lug nuts. Failure to correctly torque these items may result in the loss of a wheel, which can cause personal injury and damage to the vehicle.

Torque Values		
	FT -lbs.	**Nm**
Wheel lug nuts	65 - 75	88.14 - 101.7

Always check wheel lug nut torque values two hours after initial operation and two hours after each tire repair and/or replacement. Routinely check lug nut torque valves every 100 hours of operation. See "Maintenance Schedule" on page 26.

Engine Torques

For engine torque values, see engine owner's manual.

All Other Torques

For all other torques refer to **"Torque Values Chart"** page 39.

Tire Maintenance

It is important for your safety and the safety of others that the tires have correct air pressure. Check air pressure in all four tires before each use. Visually inspect tires for loss of air throughout each day of operation. See Tire Inflation Chart below for correct tire pressure.

Tire Inflation Chart	
Tire	**Inflation PSI**
Front Tires	7
Rear Tires	7

Use only tires recommended by Land Pride.

Jacking the Vehicle

DANGER

For your safety and safety of others, a jacked vehicle must be supported properly with jack stands before working under and around it. Also the wheels on the ground must be chocked on both sides to prevent the vehicle from rolling forward or backward.

IMPORTANT: Use a hydraulic jack, floor jack, or scissor type jack to lift the vehicle. Do not use a handyman jack or bumper jack and don't jack against the bumper, body, front 4-wheel drive transfer case, rear transmission, or axles.

1. Park vehicle on a level surface, set park brake, turn ignition switch off and remove switch key.
2. Chock front and back side of the wheels not being jacked off the ground.
3. Loosen the lug nuts on any wheel being removed approximately 1/2 turn counterclockwise while it is still on the ground.
4. See important note above. Place proper jack under vehicle as follows:
   a. **Front tires:** Center jack under the body frame between the two A-Frame struts.
   b. **Rear tires:** Center jack under the receiver hitch.
5. Jack vehicle only high enough to do the work intended.
6. Support the vehicle securely with jack stands before working under or around the vehicle.
7. Work may now be performed on the vehicle. Be sure to properly torque all bolts that were loosened. Wheel bolts should be torqued after the vehicle is lowered to the ground.
8. Lower the vehicle by first jacking the vehicle up high enough to remove the jack stands. Then carefully lower the jack until the vehicle is on the ground.
9. Remove wheel chocks.

Shock Absorber Adjustment

Traveling fast and carrying heavy loads can cause the shock absorbers to bottom-out making the ride rough and hard on the vehicle. This can be compensated for by adjusting the front and rear shock springs. Typically, the shock absorber springs are set soft for slow speeds and light loads. Fast speeds and heavy loads require a firmer setting.

Adjust front and rear shock absorber springs as follows:

1. The shocks may be adjusted without jacking the vehicle; however, it is easier if the tire near the shock being adjusted is removed and the vehicle weight is lifted off the shock.
2. Locate the step collar below the shock absorber spring. Notice the stepped notches in the collar and that one of the notches rest on a pin.
3. Use a pipe wrench to rotate the step collar only when a special step collar wrench is not available.
4. Rotation direction is defined by looking down on the shocks from the top side of the vehicle.
   a. Rotate the step collar counterclockwise to increases spring pressure and ride firmness.
   b. Rotate the step collar clockwise to decrease spring pressure and to soften the ride.
5. Return any removed tires and lower the vehicle to the ground.

Electrical System

The electrical system is 12 volt, 10 amp with negative ground. The electrical system is protected by a fuse located at the battery positive post and a liquid tight self-resetting circuit breaker in the wiring harness at the starter's positive connection. The amp ratings are as follows:

- Battery post fuse: - 175 Amps
- Self-resetting circuit breaker- 30 Amps

Common circuit failures are "shorts", corroded or dirty terminals, loose connections, defective wire insulation or broken wires. Switches, solenoids and ignition components can also not function, causing a short or open circuit.

Before attempting any fault diagnosis of the electrical system, use a test light or voltmeter to check the battery voltage. If the battery voltage is satisfactory, check the cleanliness and tightness of the terminals and ground connections. A general understanding of electrical servicing and use of basic test equipment is necessary for troubleshooting and repair.

Major overhaul or repair of the starting motor or alternator should be performed by trained technicians only.

Battery

Refer to Figure 6-1

The battery is located behind the removable front grill. Remove grill by pressing down on the grill in the location of the two tabs shown. Pull back at the top and lift up.

Battery Location
Figure 6-1

CAUTION

Do not overfill battery with water. Electrolytes may overflow and damage paint, wiring or structure. Use soap and water to clean the battery. Be careful not to get soap and water into the battery. Use baking soda mixed in water to clean corrosion off the terminals.

WARNING

Acid can cause serious injury to skin and eyes. Avoid skin contact with battery acid and always wear eye protection when checking the battery. Flush area with clean water and call a physician immediately. Acid will also damage clothing.

WARNING

Do not allow an open flame near the battery when charging. Hydrogen gas forms inside the battery. This gas is both toxic and flammable and may cause an explosion if exposed to a flame.

WARNING

Incorrect battery cable connections can damage vehicle's electrical system and cause battery cables to spark. Sparks around a battery can result in a battery gas explosion and personal injury.

- *Always **disconnect** negative (black) battery cable before disconnecting positive (red) cable.*
- *Always re**connect** positive (red) battery cable to the positive **(+)** post before reconnecting negative (black) cable to the negative **(-)** post.*

WARNING

Keep battery terminals from touching any metal parts when removing or installing the battery. Do not allow metal tools to short between battery terminals and metal vehicle parts. Sparks can cause a battery gas explosion which will result in personal injury.

Your vehicle may be equipped with either a maintenance-free sealed battery or a maintenance-free battery with removable vent caps. Inspect your battery and know which battery your have. Water can not be added to sealed batteries as the vent caps are not removable.

Check water level once a year. The water level in each cell should be up to the level indicator. If not, add water. Distilled water should be used to fill each cell in the battery. However, tap water may be used if tap water is not hard or does not have high mineral or alkali content. Do not overfill. Have the charging system checked by your local Land Pride dealer if the battery requires water every few months.

Land Pride recommends a maintenance-free battery size BCI group U1/U1R battery. The battery should also have a minimum 300 cold cranking AMP's and 375 cranking AMP's at 32^{o}F. Always follow the manufacturer's maintenance, safety, storing and charging specifications.

Jump Starting the Battery

The battery will discharge if the lights or any other electrical equipment is left on after the engine has stopped running. Also, the battery will discharge if the lights or power plug outlet is used over a prolong period while the engine is idling.

There is a pull-rope on the engine for starting a vehicle with a low battery charge. Also the engine can be jump-started with a booster battery. Follow the procedures listed below when jump-starting.

Prepare Vehicle to Jump-Start

1. Use only a 12-volt battery to jump-start the ATR. Higher voltages can damage the starter motor and other electrical components. Do not use a 24 volt battery or two 12-volt batteries connected in series.
2. Do not disconnect the vehicle's battery that needs a jump-start. Disconnecting the battery can damage the vehicle's electrical system.
3. Park the second vehicle close to the vehicle needing a boost without touching the two vehicles together. Set parking brake on both vehicles.
4. Turn off all ignition switches, electric switches, light switches and set parking brakes on both vehicles.

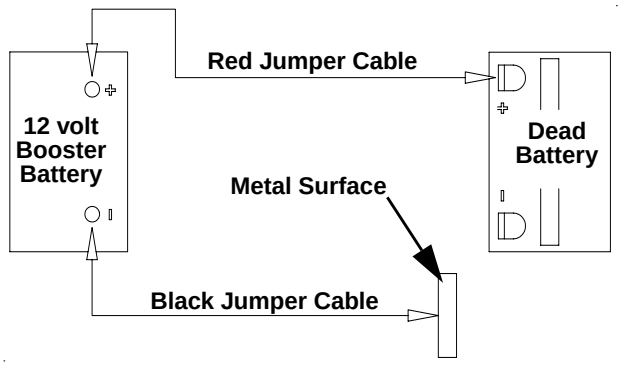


Figure 6-2

Connecting Jumper Cables

Refer to Figure 6-2

1. Inspect battery terminals for corrosion. Remove excess corrosion before connecting jumper cables.
2. Connect one end of the red jumper cable to the positive (+) terminal on the dead battery.
3. Connect the other end of the red jumper cable to the positive (+) terminal on the booster battery.
4. Connect one end of the black jumper cable to the negative (-) terminal on the booster battery.

WARNING

Make connection in step 5 below to a metal surface away from the battery. Never connect to the negative (-) post of the dead battery or to a metal surface near the battery. Sparking near the battery can result in a battery gas explosion and personal injury.

5. Connect the other end of the black jumper cable to a metal surface on the vehicle that has the dead battery.
6. Inspect jumper cables to make certain they are not in the way of moving and/or rotating components. Reposition any cables that will be in the way.

WARNING

Make certain everyone is clear of all moving and rotating components before starting either vehicle.

7. Start the second vehicle and run it at a moderate speed for a few minutes to charge the dead battery.
8. After waiting a few minutes, start the first vehicle. It should start within several tries. If the vehicle does not start, then the problem might be something other than the battery.

Disconnecting Jumper Cables

Refer to Figure 6-2

1. Let both vehicles run for several minutes to charge up the dead battery before removing the jumper cables.
2. Disconnect the black jumper cable from the metal surface on the vehicle that had the dead battery.
3. Disconnect the other end of the black jumper cable from the negative post on the booster battery.
4. Disconnect the red jumper cable from the positive (+) post on the booster battery.
5. Disconnect the other end of the red jumper cable from the positive (+) post on the dead battery.
6. Drive the vehicle that had the dead battery for a while to recharge the battery or recharge the battery with a battery charger. Follow all battery charger instructions when recharging a battery with a battery charger.

Fuel System

DANGER

- *Observe usual fuel handling precautions.*
- *Do not smoke while handling fuel.*
- *Do not fill tank with engine running or while engine is hot. Allow the engine to cool before filling. Spilling fuel over the engine, muffler, or a hot object may result in a fire or explosion.*
- *Allow engine to cool before servicing the fuel system.*
- *Clean up any gasoline spills immediately.*
- *Keep fuel away from open flame or spark.*
- *Store the vehicle away from open flame or spark if there is fuel in the tank.*
- *Use extra caution when handling gasoline and other fuels. They are flammable and vapors are explosive. A fire or explosion from gasoline can burn you and others and can damage property.*
- *Refuel outdoors preferably, or in well ventilated areas.*
- *Never attempt to start engine when there is a strong odor of gasoline fumes present. Locate and correct cause.*
- *Store gasoline in an approved container and keep it out of children's reach.*
- *Never buy more than a 30 day supply of gasoline.*
- *Do not fill gasoline containers inside a vehicle, on a truck, or on a trailer. Interior carpets and plastic truck bed liners insulate the container and slow loss of static charge.*
- *When practical, remove equipment from the truck or trailer and refuel the equipment with its wheels on the ground. If this is not possible, then refuel the equipment on the truck or trailer using a portable container and not a gasoline dispenser nozzle. If a gasoline dispenser nozzle must be used, keep the nozzle in contact with the rim of the fuel tank or container opening at all times until fueling is complete.*
- *Gasoline is a poison and harmful or fatal if swallowed.*
- *Long-term exposure to vapors can cause serious body injury and illness. Avoid prolonged breathing of vapors.*

- *Keep face away from nozzle and gas tank opening.*
- *Keep gas away from eyes and skin.*

DANGER

Allow the engine to cool before filling the fuel tank. Spilling fuel over the engine, muffler, or a hot object may result in a fire or explosion.

Fuel Type

The fuel tank is located over the engine. Total capacity for the fuel tank is 6.9 U.S. quarts.

When filling the fuel tank, place the gear shift in forward or reverse, set the park brake, turn off the engine, and remove ignition key. Clean dirt from around the fuel tank cap, remove cap, and begin filling. When finished, screw the cap back on securely and wipe up any spilled gasoline. Use regular unleaded gasoline with an octane rating of 87 or higher.

IMPORTANT: Never use methanol, gasoline containing methanol, or gasohol containing more than 10% ethanol because the fuel system could be damaged. Do not mix oil with gasoline.

Using a fuel stabilizer/conditioner in the vehicle can provide benefits such as:

1. Keeps gasoline fresh during storage of 90 days or less. For longer storage, drain the fuel tank.
2. Cleans the engine during operation.
3. Eliminates gum-like varnish build-up in the fuel system.

IMPORTANT: Do not use fuel additives containing methanol or ethanol.

Add the correct amount of gas stabilizer/conditioner to the gas. Follow the gas stabilizer/conditioner manufacturer's directions for best results.

See engine operator's manual for the following:

- Fuel Filter location and servicing.
- Draining the fuel tank.
- Checking fuel line for cracks and leaks.
- Engine fuel valve lever.

Engine Maintenance

General Information

Detailed instructions and recommendations for break-in and regular maintenance are specified in the engine operator's manual. Engine warranty is backed by the engine manufacturer. Please refer to engine manufacturer's manual for engine servicing, lubricating oil levels, oil quality and viscosity recommendations, bolt torques, etc. Special attention should be paid to applicable data that is not duplicated here.

High Altitude Carburetor Kit

IMPORTANT: The air-fuel mixture in carburetors modified for high elevation is too lean when operating at elevations below 5,000 feet. Operating engines with modified carburetors below 5,000 feet can result in engine overheating and serious engine damage. Return carburetor to original factory specifications when operating at low elevations.

ATR vehicles shipped from the factory are stocked with carburetors designed to operate efficiently between 0 and 4,999 feet. Carburetor change over kits for different altitudes may be purchased and installed by your nearest Land Pride Dealer.

The following carburetor kits are available:

Elevation	Carburetor Kit No.
0'-4999'	**99101-ZH8-0920**
5,000'-7,999'	**99101-ZH8-0900**
8,000' & up	**99101-ZH8-0880**

Engine Fuel Valve Lever

Refer to Figure 6-3

The engine fuel valve opens and closes the passage between the fuel tank and carburetor. Leave fuel valve lever in the **OFF** position when the engine is not in use to prevent carburetor flooding and reduce possibility of fuel leakage into the cylinder cavity and engine oil reservoir. Turn fuel valve lever to the **ON** position only when running the engine.

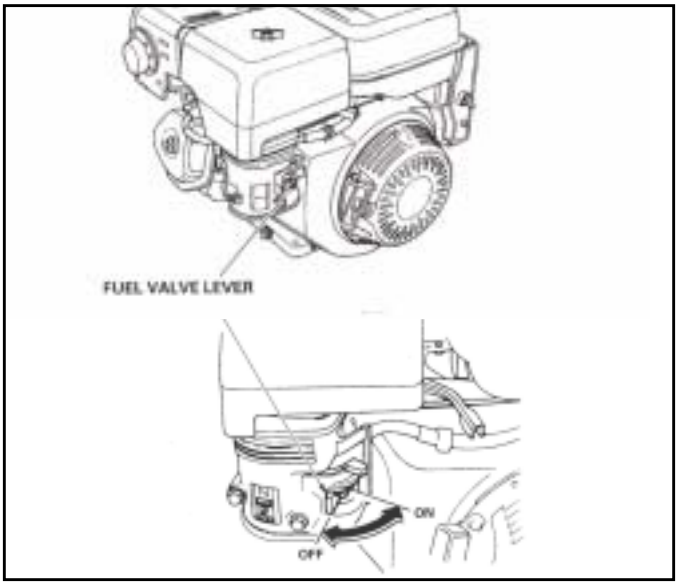


Figure 6-3

Drive Belt Replacement

Replace drive belt when it shows signs of severe cuts, tears, excessive weather checking, and cracking or burns caused by slipping. Slight raveling of belt covering does not indicate failure. Trim ravelings with a sharp knife.

Inspect belt pulley grooves and flanges for wear. A new belt, or one in good condition, should never run against the bottom of the groove. Replace pulley when this is the case, otherwise belt will lose power and slip excessively.

Never pry a belt to get it on a pulley as this will cut or damage the fibers of the belt covering.

Keep oil and grease away from belts, and never use belt dressings. Any of these will destroy the belt composition in a very short time.

⚠ CAUTION

Make certain to keep fingers from getting caught between belt and pulley when rotating belt over pulley.

Replace drive belt as follows:

1. Park vehicle on a flat surface, move gear shift lever to neutral, set park brake, turn off engine, remove ignition key, and disconnect negative battery cable.
2. Remove bolt (See Figure 6-4) that secures the body to the back left corner of the vehicle's frame. Remove bolts securing drive belt cover. Pull on the back left corner of body only far enough for the belt cover to clear the body while lifting it up out of the vehicle.

IMPORTANT: Over flexing the body will damage it. Do not pull on the body more than what is necessary for the belt cover to clear the body while lifting the cover up out of the vehicle.

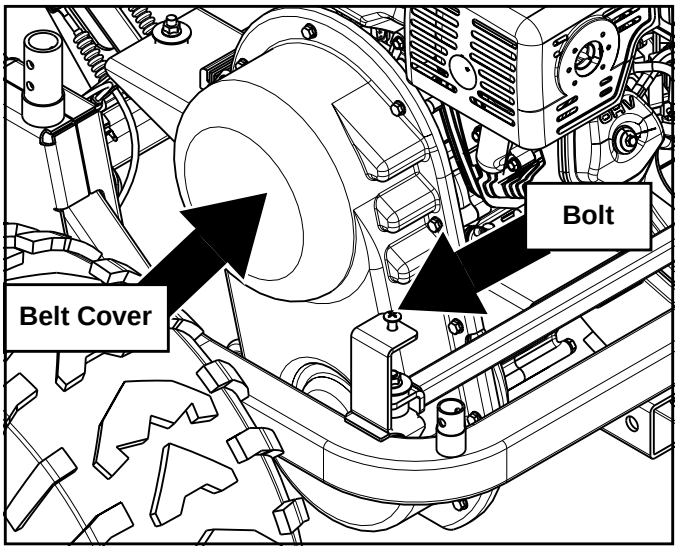


Figure 6-4

3. Hand squeeze the belt together between the upper and lower sheaves to force the belt into the lower variable speed sheave. This should open the lower variable speed sheave side walls allowing room to remove the belt.
4. Remove belt by rolling it off over the lower sheave and then lifting it up off the top sheave.
5. Reinstall new belt by placing it over the top sheave and then rolling it over the lower sheave.
6. Reinstall belt cover and fasteners.
7. Reattach the body to the back left corner of the vehicle's main frame.
8. Reconnect battery negative cable.

Engine Air Filter

Refer to Figure 6-5

Below is a general description of engine air filter maintenance. See Engine Operator's Manual for a detailed description.

NOTE: Do not operate engine without both air filter elements or with a damaged air filter element. Dirt will enter the engine causing rapid engine wear and void engine warranty.

Dual Air Filter Maintenance Schedule

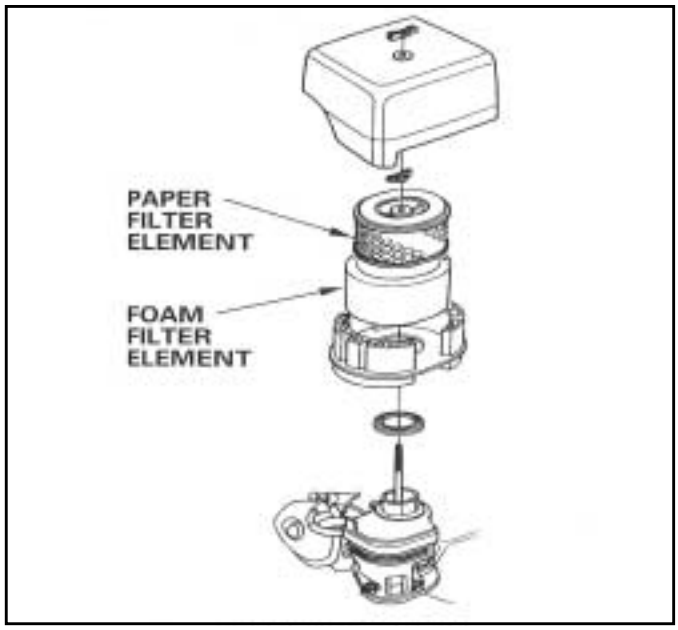
- Inspect filter elements after each use.
- Clean filter elements every 3 months or every 50 hours (whichever comes first).
- Replace paper element every year or 300 hours (whichever comes first).
- ***Service more frequently when used in dusty conditions***.
- Replace foam element when damaged.

Dual Air Filter Maintenance Procedure

1. Remove wing nut from air cleaner cover and remove cover.
2. Remove wing nut from filter elements and remove filters.
3. Separate foam filter element from paper filter element.
4. Inspect both air filter elements and replace any that are damaged. Always replace paper filter element at schedule intervals listed above.
5. Clean air filter elements as follows:
   - **Paper element** - Lightly tap edge of filter element on a hard surface several times or blow not more than 30 psi compressed air through the filter from the inside to the outside. Do not brush dust off the element. Brushing will damage the paper and force dust particles into the element.

- **Foam element** - Clean foam element with detergent in warm water or in a nonflammable solvent. **Do not wring element**. Squeeze excess cleaning fluids out. Allow time for the element to dry and then soak it with clean engine oil. Squeeze excess oil out. Excess oil left in the filter will cause engine to smoke briefly when first started.

6. Repeat step 4 before installing the filter elements to make sure they have not been damaged during cleaning. Never run an engine without the filters installed.



Engine Air Filter Elements
Figure 6-5

Filter Elements Replacement Parts

Refer to Figure 6-5

Description	Part No.
Paper Filter Element	17210-ZE3-000
Foam Filter element	17210-ZE3-010

Spark Arrester

DANGER

The spark arrester does not stop all fire emitting sparks from escaping the muffler. Use extreme caution when driving through dry grass, brush and other fire hazard materials. Never stop or park the vehicle over combustible materials.

WARNING

The muffler is very hot and will burn upon contact. Allow time to cool before servicing the spark arrester.

CAUTION

Service spark arrester every 100 hours to maintain efficiency.

CAUTION

Be careful not to damage spark arrester screen during cleaning. Replace damaged spark arrester to prevent fires.

Refer to Figure 6-5

The spark arrester is located behind the muffler deflector and is designed to suppress sparks from escaping the muffler. Over time carbon deposits will build-up on the Spark Arrester screen reducing engine power.

Spark Arrester Maintenance Schedule

- Inspect every 100 hours for carbon build-up and screen damage.
- Clean whenever carbon build-up is visible or whenever lost of engine power is detected.
- Replace when damaged.

Spark Arrester Maintenance Procedure

Refer to Figure 6-5

1. Remove muffler deflector mounting screws and muffler deflector.
2. Remove spark arrester from engine exhaust port.
3. Remove carbon deposits from spark arrester screen with a wire bristle brush. Be careful not to damage spark arrester screen.
4. Inspect spark arrester for holes or breaks in the screen and replace if damaged.
5. Reinsert Spark Arrester into engine exhaust port and reattach muffler deflector to muffler.

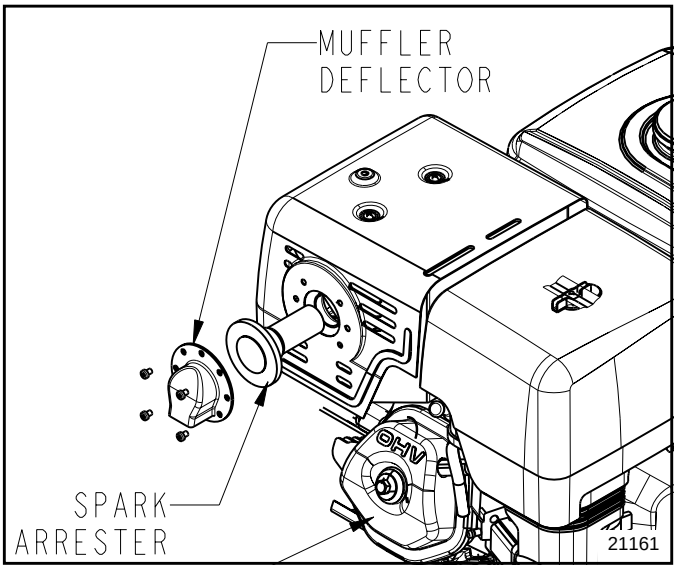


Figure 6-5

Maintenance Schedule

Maintenance Operation	Daily	Every 100 Hrs.	Every 300 Hrs.	Every 500 Hrs.	Every 6 Months	Every Year	Refer to Page
Check Engine Oil level (8)	X						27
Check Tire Pressure	X						19
Inspect All Nuts and Bolts for Tightness	X						19
Check and Clean Area Around Engine Air Intake (9)	X						24
Clean Air Filter Elements (9)	See note 9 below.						24
Check Wheel Lug Nuts (Torque 65 to 75 Ft. lbs.) (2)		X					19
Check Master Cylinder Brake Fluid Level		X					29
Check Battery Charge and Water Level		X					20
Change Engine Oil (3), (4) & (8)		X			X		27
Check Rear Transfer Case Fluid Level (7)		X			X		28
Clean Spark Arrester (1)		X			X		25
Check & Regap Spark Plugs (.028 to .031 in.) (8)		X			X		
Replace Air Cleaner Paper Element (5)			X			X	24
Inspect Drum Brakes (6)			X			X	
Inspect Parking Brake (6)			X			X	
Replace Spark Plugs (8)			X			X	
Check and Adjust engine idle Speed (6) & (8)			X			X	
Check Valve Clearance (6) & (8)			X			X	
Clean Combustion Chamber (10)				X		X	
Grease King Pins						X	29
Clean Battery and Terminals						X	20
Check Drive Belt and Pulleys						X	24

Reference Notes for above Maintenance Operation:

(1) Clean spark arrester whenever loss of engine power is noticed or every 100 hours (whichever comes first). Replace if damaged.

(2) Check tightness after first 2 hours of initial operation and after removal for repair and replacement.

(3) Make firstengine oil change after the first month of operation or at 20 hours of operation (whichever comes first).

(4) Service every 100 hours or 6 months (whichever comes first).

(5) Replace air cleaner paper element every 300 hours or ever season (whichever comes first). Replace more frequently when used in dusty conditions. Replace immediately if damaged.

(6) Have a Land Pride dealer perform this service every year or every 300 hours (whichever comes first).

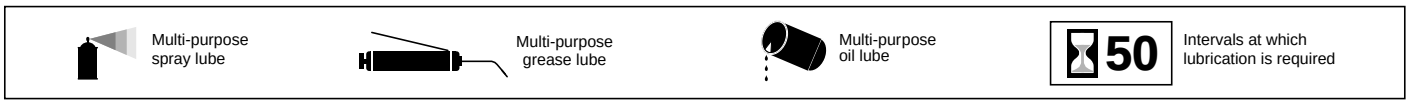
(7) Change ever year or every 400 hours (whichever comes first). Change immediately if contaminated with water.

(8) See also your Honda Engine Owner's Manual.

(9) Clean foam and paper filter elements every 50 hours or every 3 months (whichever comes first). Inspect for damage during cleaning and replace immediately any damaged filter element.Service more frequently when used in dusty dirty conditions.

(10) Have a Land Pride dealer perform this service every year or every 500 hours (whichever comes first).

Lubrication Points

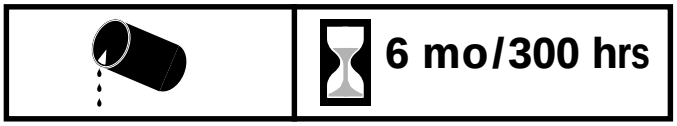


Engine Oil

A general description for engine oil maintenance, recommendations, and capacities is provided below. See Engine Operator's Manual for a detailed description.

NOTE: Running engine low on oil can cause engine damage and void engine warranty.

NOTE: Overfilling of oil level can cause loss of power, engine damage and void engine warranty.



Engine Oil Fill and Drain Locations

Refer to Figure 7-1

See also "Section 10 Specifications & Capacities" on page 33

Filler cap/dipstick location: At rear end of engine
Drain plug location: At rear end of engine
Type of Lubrication: SAE 10W30
Engine Oil Capacity: 1.16 US qts. / 1.1 liters
Quantity: Fill oil to outer edge of oil fill hole.

Engine Oil Maintenance Schedule

- Check oil level after each use
- Make first oil change after the first month of operation or at 20 hours of operation (whichever comes first).
- Make all subsequent oil changes every 6 months or every 100 hours of operation (whichever comes first).

Engine Oil Level Check

Refer to Figure 7-1

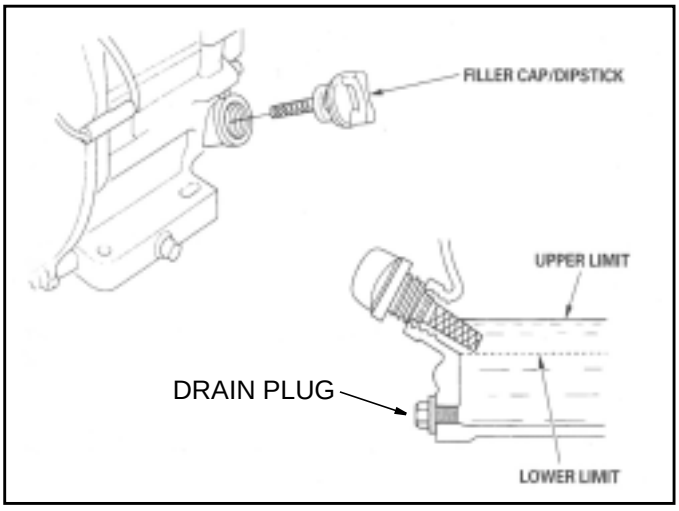
Check engine oil daily with filler cap/dipstick located at the engine rear end as follows:

1. Park vehicle on a level surface, set park brake, turn off ignition switch, and remove switch key.
2. Remove filler cap/dipstick and wipe it clean.
3. Insert and remove dipstick without screwing it into the fill neck. Check oil level shown on dipstick.
4. Fill to edge of oil fill hole with recommended oil when oil level is low.
5. Replace filler cap/dipstick and tighten securely.

Engine Oil Change

Warm oil drains quickly and completely. Therefore, drain used engine oil while engine is still warm as follows:

1. Park vehicle on a level surface, set park brake, turn off ignition switch, and remove switch key.
2. Place a suitable container below engine to catch used oil. Remove filler cap/dipstick and drain plug.
3. Allow used oil to drain completely and then reinstall and tighten drain plug securely.
4. Dispose of used motor oil in a manner that is compatible with the environment. Do not throw used oil in the trash, pour it on the ground, or down a drain.
5. Fill oil to the outer edge of the oil fill hole with recommended oil. Engine must be level when filling.
6. Replace filler cap/dipstick and tighten securely.



Engine Oil Drain, Fill & Check Locations
Figure 7-1

Transfer Case Oil

A general description for transfer case oil maintenance, recommendations, and capacities is provided below.

NOTE: Running vehicle low on transfer case oil can damage transfer case and void its warranty.

Transfer Case Oil Type, Fill, and Drain

Refer to Figure 7-2

See also "Section 10 Specifications & Capacities" on page 33

Fill cap location: At rear right hand side (See arrow)
Drain plug location: At bottom center of transfer case
Type of Lubrication: 80/90 Gear lube
Transfer case Lubrication Capacity: 20 oz.
Quantity: Fill transfer case oil to edge of oil fill hole.

Transfer Case Oil Maintenance Schedule

- Check transfer case housing for damage and possible oil leakage after each use.
- Check transfer case oil level every 6 months or every 100 hours (whichever comes first).
- Change transfer case oil once a year or every 400 hours (whichever comes first).

Transfer Case Oil Level Check

Refer to Figure 7-2

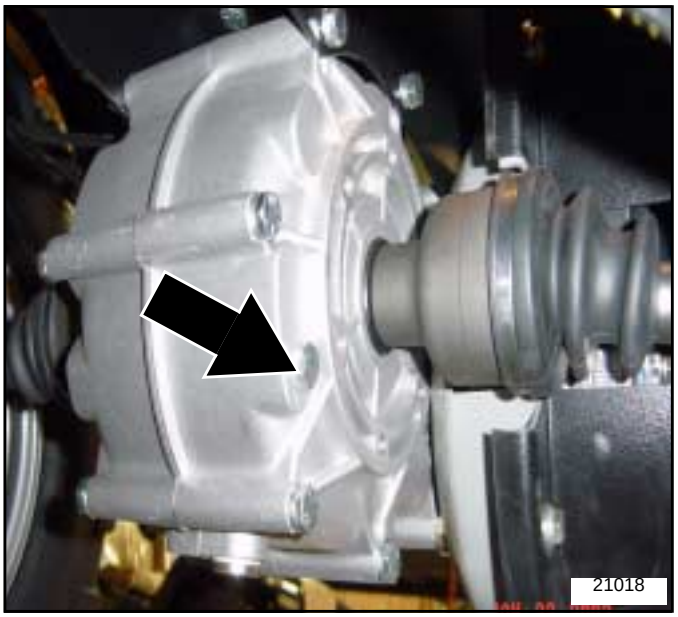
Check transfer case oil level at the fill cap located on right rear side of transfer case (See Arrow in Figure 7-2) as follows:

1. Park vehicle on a level surface, set park brake, turn off ignition switch, and remove switch key.
2. Remove fill cap and verify oil is level with bottom of fill hole.
3. Fill oil to bottom of fill hole with recommended gear lube if oil level is low.
4. Replace fill cap and tighten securely.

Transfer Case Oil Change

Warm oil drains quickly and completely. Therefore, drain used transfer case oil while transfer case is still warm as follows:

1. Park vehicle on a level surface, set park brake, turn off ignition switch, and remove switch key.
2. Place a suitable container below the transfer case to catch used oil. Remove fill cap and drain plug.
3. Allow used oil to drain completely and then reinstall drain plug and tighten it securely.
4. Dispose of used transfer case oil in a manner that is compatible with the environment. Do not throw used oil in the trash, pour it on the ground, or down a drain.
5. Fill oil to the edge of the oil fill hole with recommended gear lube.
6. Replace fill cap and tighten securely.



Transfer Case
Figure 7-2

Master Cylinder Brake Fluid

Refer to Figure 7-3

Brake Fluid Type and Fill Location

See also "Section 10 Specifications & Capacities" on page 33

Fill cap location: Located on the driver's side of vehicle mounted to battery support bracket. (see Figure 7-3)
Type of fluid: DOT 3
Quantity: Fill to line on reservoir.

Brake Fluid Maintenance Schedule

- Check fluid reservoir every 100 hours.
- Fill reservoir immediately if low or if brakes begin to fade.

Brake Fluid Visual Check and Fill

Refer to Figure 7-3

The master cylinder fluid reservoir is attached to the battery support bracket on the driver's side of the vehicle. Visually inspect fill line located on reservoir by looking under the driver's side wheel well. Add DOT 3 fluid to the reservoir through the front grill opening, see Figure 6-1 on page 21, with a tube inserted in the reservoir and a funnel attached to the tube.

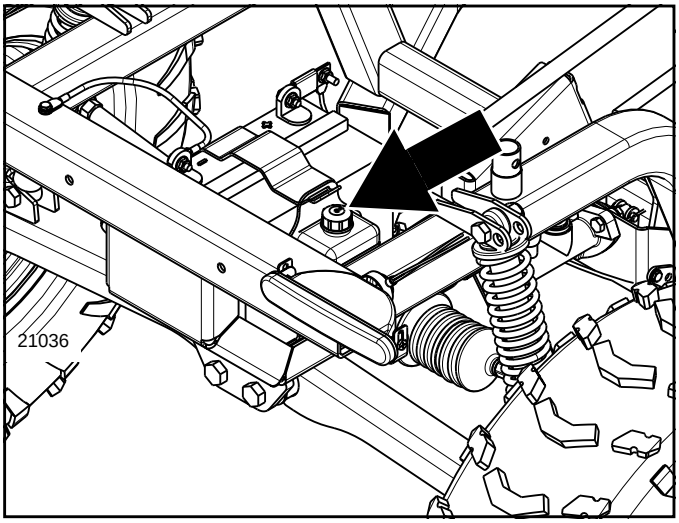
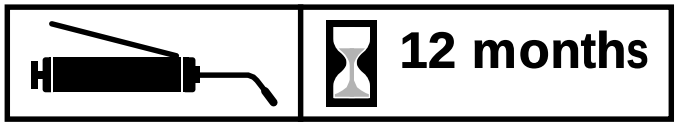


Figure 7-3

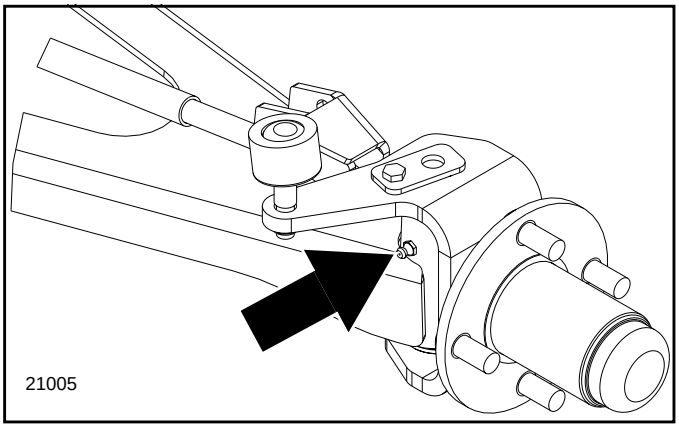
Grease Lubrication Points

Refer to Figure 7-4



King Pin

Grease front King Pins once every 12 months:
One Grease zerk for each front King Pin.
Type of Lubrication: Multi-purpose grease.
Quantity = Add grease until grease begins to emerge from either the top or bottom bushings.



King Pin Location
Figure 7-4

Seasonal Storage

Engine Preparation for Storage

The following steps should be taken if the engine is not going to be run for a season:

1. Run engine for a minimum of 15 minutes.
2. Drain oil from crankcase while engine is still warm.
3. Refill with fresh oil of proper viscosity. Refer to page 27.
4. Prepare fuel system as follows:

   Short term storage (90 days or less):

   a. Siphon most of the fuel from the tank.

   b. Add fuel stabilizer to the tank per manufacturers recommendation.

IMPORTANT: Do not use fuel additives containing methanol or ethanol.

   c. Fill fuel tank with fresh fuel to prevent water condensation build-up.

   d. Run engine to circulate fresh fuel throughout engine components.

   Long term storage (over 90 days):

   a. Siphon most of the fuel from the tank.

   b. Run engine until it stops from lack of fuel.

NOTE: Gasoline evaporates if left in carburetor for long periods, forming gum and varnish deposits in the carburetor. These deposits will cause engine flooding and loss of power.

   c. Remove spark plugs and pour a tablespoon of engine oil into each spark plug hole. Install plugs, but do not reconnect plug leads.

   d. Crank engine with starter at least a dozen revolutions to distribute oil over cylinder walls and valve mechanism.

5. Clean exterior surface of engine. Spread a light film of oil over any exposed metal surfaces of engine that are subject to corrosion.
6. Clean dirt and chaff from cylinders and fins, blower housing and muffler.
7. Check oil fill cap and fuel tank cap to make certain they are securely in place.

Vehicle Storage Preparation

The following steps should be taken when storing the ATR to ensure readiness for the next season.

1. Remove all dirt and trash.
2. Clean and touch up all scrapes per Section 9 Body Repair Procedures on page 31.
3. Check thoroughly for any worn or damaged parts that need replacing and order them from your Land Pride Dealer.
4. Thoroughly lubricate the vehicle according to lubrication instructions.
5. Block vehicle up to take weight off the tires.

NOTE: Do not deflate tires.

6. Protect battery from freezing temperatures. Occasionally recharging battery during storage will extend battery life.
7. Perform separate engine preparation steps as listed below.
8. Store vehicle in a clean, dry place.

Vehicle Removal From Storage Preparation

Before starting the vehicle following post season storage, the following servicing is required:

1. Clean vehicle, removing trash and dirt accumulation.
2. Reconnect spark plug leads to spark plug.
3. Check engine oil level.
4. Fill fuel tank with fresh gasoline. Run the vehicle at half speed for 5 minutes, checking operation of steering control levers. Stop engine and check for oil leaks, loose fittings and so forth.
5. Tighten any bolts that have loosened.
6. Install all safety shields and review safety precautions listed in this manual.
7. Check and inflate tires to correct air pressure.

Introduction

Land Pride ATR Runabout bodies are constructed of ABS with WeatherPro G^{tm} Color Cap. Scuffs, light scratches, and deep gouges are in most situations repairable. Land Pride recommends that you use a professional body shop to restore your vehicle's body. For your consideration, we have provided below a list of recommended tools, materials, and steps suggested for repairing the WeatherPro G^{tm} Color Cap body.

NOTE: Land Pride does not supply the required tools, paint, and materials needed to repair the vehicle body. All tools, paint, and materials should be purchased locally.

Light Scuff

Required Tools and Materials (See note above)

- 1,000 rpm buffing tool, DeWalt #849
- Meguiars buffing compound #8432
- Meguiars polish #8232 (optional)
- Meguiars maroon cutting pad #W-7006
- Meguiars tan polishing pad #W-9006 (optional)
- Meguiars backing plate #W-64
- Soft clean cotton cloths

Steps to Repair

1. Clean entire area of repair. Clean water is fine for this purpose. ***Do not use solvent*** as this will damage the body surface.
2. Install cutting pad #7006 on buffer (maroon pad).
3. Spread compound on area of repair, use about as much as it takes to cover a half-dollar coin, this is a good starting point.
4. Set buffing tool to lowest possible speed on dial, do not buff at a high speed as this will heat and warp material.
5. Buff damage area until surface scuff disappears. A second and third application of compound may be required. Keep buffer moving over surface, this will help keep the surface cool. Clean compound residue off surface after each buffing operation. Do not continue to buff compound until dry, or buff the surface when dry. When all scuff marks have been buffed out the surface may still appear a little dull, if so, proceed to #6.
6. Install polish on surface as in step #3.
7. Spread #8232 polish on surface as in step #3.
8. Polish to a high luster or as required to match surrounding material.
9. Wipe clean with ***soft clean*** cloth; any dirt on cloth will mar surface.

Scratch

Required Tools and Materials (See note above)

- 1,000 rpm buffing tool, DeWalt #849
- Meguiars buffing compound #8432
- Meguiars polish #8232 (optional)
- Meguiars maroon cutting pad #W-7006
- Meguiars tan polishing pad #W-9006 (optional)
- Meguiars backing plate #W-64
- Soft clean cotton cloths
- 3M interface sanding pad #05774
- Air Vantage finishing sander with 6-inch hook and loop pad
- 3M-P800 sanding film #00970

Steps to Repair

1. Clean entire area of repair. Clean water is fine for this purpose. ***Do not use solvent*** as this will damage the body surface.
2. Install interface-sanding pad onto finishing sander. Attach sanding film to Interface pad. (Take care in centering sanding pad and film on sander.)
3. Sand surface using about 45 P.S.I. air pressure at tool inlet, do not sand at a high pad speed, because speed causes the sanding film to load with dust and heats the body surface. Proper sander pad speed is based on cut and travel speed of pad, and downward pressure applied by the operator. To clean sanding pad surface, run sander face at 90 degrees on the edge of a piece of cardboard. This cleaning operation will help keep the sanding film clean and run cooler. Continue to sand surface until original scratch damage is no longer visible. Wipe the surface with a cloth then inspect to be sure the entire original scratch has been fully sanded away (very important).
4. Install cutting pad #7006 on buffer (maroon pad).
5. Spread compound #8432 on area of repair, use about as much as it takes to cover a half-dollar coin, this is a good starting point.

6. Set buffing tool to lowest possible speed on dial, do not buff at a high speed as this will heat and warp material.
7. Buff sanded area until surface scuff disappears.
8. A second and third application of compound may be required. Keep buffer moving over surface, this will help keep the surface cool. Clean compound residue off surface after each buffing operation. Do not continue to buff compound until dry.
9. Buff the surface of the body when dry. When all scuff marks have been buffed out the surface may still appear a little dull, if so, proceed to #10.
10. Install polishing pad #W-9006 on buffer (tan pad).
11. Spread #8232 polish on surface as in step #3.
12. Polish to a high luster or as required to match surrounding material.
13. Wipe clean with ***soft clean*** cloth; any dirt on cloth will mar surface.

Deep Gouge

Required Tools and Materials (See note on page 31)

- 1,000 rpm buffing tool, DeWalt #849
- Evercoat Body Filler Easy Sand
- Sanding Pad
- DuPont Full-Thane Primer 421-15
- DuPont 3939 Cleaner
- DuPont Sealer 42470
- DuPont Chroma Base/ Clear Coat Paint System
- HVLP Paint Sprayer

Steps to Repair

1. Sand damaged area with 500-grit paper to remove raised edges and to create abraded surface for proper adhesion.
2. Fill damaged area with Evercoat body filler (2-part system) and allow to completely dry.
3. Sand down high spots with 500-grit paper. If recesses are still visible due to fillers shrinkage, apply second skim coat and again allow to dry completely, then sand surface flush with surrounding area.
4. Apply DuPont Full-Thane Primer 421-15 over body filler.
5. Once primer is completely dry, clean surface with DuPont 3939 Cleaner, and again allow surface to dry completely.
6. Apply 42470 Sealer over body filler.
7. Apply color-matched paint system with HVLP paint sprayer according to supplier's recommendations to meet WeatherPro G's surface finish, i.e. DuPont's two part Base/ Clear coat system.

4200ATR Runabout			
Engine	Honda GX390	**Frame Construction**	Tube & Channel
Horse Power	13	**Frame. Suspension**	Independent A-arms Coil/over Adjustable Shocks
Displacement	389 cc	**Rear Suspension**	Independent trailing arms Coil/over Adjustable Shocks
Cylinders	1	**Fenders**	Integral
Valving	OHV	**Front Bumper**	Standard
Lubrication	Sump/Splash	**Front Brush Guard**	Optional
Engine Oil Type	SAE 10W30	**Seating**	Buckets - 2
Engine Oil Capacity	1.16 US quarts 1.1 Liters	**4-Post Acc.Bar**	Standard
Engine Idle rpm	1250 rpm min. to 1350 rpm max.	**Rear Hitch**	2” receiver
Maximum Engine Static rpm	3800 rpm	**Approximate Curb Weight**	726 lbs.
Max. Torque	19.3 lb@2500	**Total Payload of Base Unit***	674 lbs.
Cooling	Air	**Total Gross Vehicle Weight**	1400 lbs.
ACG Output	12V/10A	**Optional Front Cargo Rack Capacity**	160 lbs.
Ignition	Keyed/recoil back up	**Optional Rear Cargo Rack Capacity**	40 lbs.
Battery	300 cca	**Maximum Tongue Weight**	50 lbs.
Spark Arrestor	Standard	**Maximum Towing Capacity**	400 lbs.
Headlights	Standard	**Wheel Base**	64"
Tail Lights	Standard	**Tread Center Front**	41.5"
Fuel Capacity	6.9 qts	**Tread Center Rear**	42"
Fuel Type	Unleaded fuel with 87 min octane (Methanol fuel not allowed)	**Width at front tires**	48"
Transfer Case Oil Type	80/90 Gear Lube	**Width at rear tires**	54"
Transfer Case Oil Capacity	20 oz. US	**Height OAL**	63.5"
Transmission	CVT	**Length OAL**	94"
Gear Selection	Forward/Neutral/Reverse with Neutral Start	**Turn Circle**	18’
Max. Speed	25 mph	**Turn Radius**	9’
Rear Brakes	Hydraulic Drum	**Floorboard Height**	13"
Brake oil	DOT 3	**Min. Ground Clear.**	9 1/2”
Steering	Rack & Pinion	**Tire Size (Front)**	25x8-12 All-Terrain Tread
Steering Wheel Dia.	14" O.D.	**Tire Size (Rear)**	25x11-12 All-Terrain Tread
Body Cowling	ABS Composite	**Tire Pressure (Front)**	7 psi
Floorboards	ABS Composite	**Tire Pressure (Rear)**	7 psi

* Base unit does not include optional cargo racks.

4200ATR Runabout

Features	Benefits
13hp Honda 390cc OHV Engine	For Proven Power & Dependability
Electric Start With Recoil Backup	For easy and sure starts every time
4-Wheeled Independent Suspension	For Soft Ride & Excellent Stability
Rack & Pinion Automotive Type Steering	For Easy Handling & Quick Response
Four Post Accessory Bar	Offers Accessory Mounting Capabilities & Added Protection from Limbs & Branches
7" Minimum Ground Clearance	For Traversing Rough Terrain
674lb. Total Payload	For Convenient Cargo and Gear Hauling Capabilities
4-Wheeled Automotive Style Braking	For Maximum Stopping Power & Control
Constantly Variable Transmission	For Rapid Response & Easy Shifting
Side-by-side bucket seating	For Maximum Operator & Passenger Comfort
13" Diameter Steering Wheel	For Easy Handling & Control
54" Wide Wheel Stance	For Easy Narrow Trail Capability & Loading into Full or Mid-sized Pickups
Engine Mounted Over Drive Axle	For Excellent Traction Capability
High Back Bucket Seats	For Added Passenger & Operator Comfort
Wide Range Of Accessories	To Meet Individual Customer Needs
Warranty	One year against manufacturing defects. Two years manufactured engine warranty.

Symptoms	Probable Causes	Suggested Remedies
Battery is dead	Key switch is not in the off position	Switch key to off position Disconnect and recharge battery
	Battery is worn out or defective	Replace battery
	Starter solenoid is shorted	Replace starter solenoid
Battery will not charge up	Battery connections are loose or corroded	Clean and tighten battery connections
	Battery fluid level is low	Add distilled water to battery cell
	Battery cell is dead	Turn key switch on and pull rope start to start engine. Replace battery as soon as possible
	Battery is worn out or defective	
Brakes are sticking (won't release)	Master cylinder linkage is out of adjustment	Adjust master cylinder linkage
	Master cylinder return spring is broken	Replace master cylinder return spring
	Ground debris in brake linkage	Clean debris from brake linkage
Brakes not functioning	Master cylinder oil level is low	Add brake fluid to the master cylinder
	Brake line is broken	Replace brake line
	Brake line has air in it	Bleed brake line and add brake fluid
	Master cylinder is defective	Replace master cylinder
Electrical System does not work	Electrical fuse is blown or missing	Replace electrical fuse
	Battery connections are loose or corroded	Clean and tighten battery connections
	Battery is worn out or defective	Replace battery
	Ignition switch is defective	Replace ignition switch
Engine backfires	Spark plug is fouled	Replace or clean spark plug
	Air intake restrictor upstream of air cleaner is missing or incorrectly installed	Replace or correctly install air intake restrictor
	Throttle cable is defective or out of adjustment	Clean and oil throttle cable. Replace worn or damaged cable
Engine knocks	Engine speed is set too low	Adjust engine idle screw
	Engine is overloaded	Avoid overloading the engine
	Fuel is stale or dirty	Replace fuel with new fuel

Section 12 Troubleshooting

Symptoms	Probable Causes	Suggested Remedies
Engine loses power	Throttle cable is sticking	Clean and oil throttle cable. Replace worn or damaged cable.
	Choke cable is sticking	Clean and oil choke cable. Replace worn or damaged cable.
	Spark plugs are defective	Replace spark plugs
	Spark plugs are fouled	Clean spark plugs or replace
	Fuel supply is restricted	Check for dirt in fuel tank
	Fuel line is plugged, pinched, or kinked	Clean or replace fuel line
	Fuel leaks into the crankcase	Clean or replace fouled spark plugs Verify choke position is not stuck on.
	Engine oil level is high	Drain excess oil, check for gas in the oil
	Fuel octane is incorrect	Use unleaded 87 minimum octane
	Throttle cable is faulty or out of adjustment	Adjust or replace throttle cable
	Air cleaning element is plugged	Replace or clean air cleaner with air
	Engine is overheating	See Symptoms for engine overheating
Engine overheats	Engine cooling fins are plugged	Allow engine to cool. Clean cooling fins with high pressure air.
	Engine oil level is low	Add specified engine oil
	Carburetor air intake tube is plugged	Clean air intake tube
	Air cleaning element is plugged or missing	Replace or clean air cleaner with air
Engine runs unevenly	Electrical connections are loose	Reattach electrical connections
	Engine cooling fins are plugged	Allow engine to cool. Clean cooling fins with high pressure air.
	Throttle cable is sticking	Clean and oil throttle cable. Replace worn or damaged cable.
	Choke cable is sticking	Clean and oil choke cable. Replace worn or damaged cable.
	Fuel is stale or dirty	Replace fuel with new fuel
	Fuel line is plugged	Clean fuel line
	Fuel type is incorrect	Use unleaded 87 minimum octane. (Methanol not allowed)
	Fuel leaks into the crankcase	Clean or replace fouled spark plugs Verify choke position is not stuck on.
	Spark Plug wiring is defective	Replace spark plug wiring
	Spark plug is defective	Replace spark plugs
	Spark plug is fouled	Clean spark plugs or replace
	Carburetor is not adjusted correctly	Adjust carburetor
	Air cleaner is plugged	Replace or clean air cleaner with air

Section 12 Troubleshooting

Symptoms	Probable Causes	Suggested Remedies
Engine starts in gear	Neutral switch is adjusted incorrectly	Adjust neutral switch to be engaged with gear shift in neutral
	Shifter link is out of adjustment	With gear shift in neutral, adjust shifter link to also be in neutral position
Engine stops running	Gas tank is empty	Refill gas tank
	Spark Plug wiring is defective	Replace spark plug wiring
	Ignition switch is defective	Replace ignition switch
	Battery is worn out or defective	Turn key switch on and pull rope start
	Crankshaft is broke	Replace broken crankshaft
Gear Shift is malfunctioning	Foot feed throttle spring is loose or broken	Reattach disconnected foot feed spring. Replace defective spring.
	Throttle cable is sticking	Clean and oil throttle cable. Replace worn or damaged cable.
	Engine idle return spring is loose or broken	Reattach disconnected engine idle spring. Replace defective spring.
	Engine idle set too high	Readjust engine idle
	Governor spring is loose or broken	Reattach disconnected governor spring. Replace defective spring.
	Drive Clutch does not disengaged	Clean drive clutch by blowing air through it
Park brake doesn't work	Not depressing the floor brake pedal before setting the park brake.	Depress floor brake pedal with your foot before setting the park brake.
	Park brake cable is not adjusted correctly.	Adjust park brake cable at the rear wheel drums.
	Park brake cable is broken	Replace park brake cable
	Park brake cable is jammed with debris	Clean debris from park brake cable
	Push button on top of park brake lever is damaged	Replace push button assembly
Starter cranks slowly	Battery power is low	Recharge battery
	Battery connections are loose or corroded	Clean and tighten battery connections
	Battery is worn out or defective	Replace battery
	Harness connections are loose	Reconnect harness connections
	Harness pin connections are bent	Straighten harness pins
	Harness is defective	Replace harness
	Ignition switch is defective	Replace ignition switch
	Starter is defective	Replace starter
	Engine oil is too heavy	Replace with SAE 10W30 oil

Section 12 Troubleshooting

Symptoms	Probable Causes	Suggested Remedies
Starter does not work	Neutral switch is not engaged	Adjust neutral switch to be engaged with gear shift in neutral
	Neutral switch is defective	Replace neutral switch
	Battery power is low	Recharge battery
	Battery connections are loose or corroded	Clean and tighten battery connections
	Battery is worn out or defective	Replace battery
	Harness connections are loose	Reconnect harness connections
	Harness pin connections are bent	Straighten harness pins
	Harness is defective	Replace harness
	Ignition switch is defective	Replace ignition switch
	Starter is defective	Replace starter switch
Steering does not track correctly	Improper tire inflation	Inflate all tires to correct tire pressure
	Tie rods not adjusted correctly	Adjust tie rods to make front tire center line spread 1/8” to 3/16” less than rear tire center line spread.
	Damaged frame steering or suspension parts	Inspect thoroughly
Steering play is excessive	Pinion shaft is improperly attached	Realign pinion shaft
	Pinion shaft is loose	Tighten pinion shaft bolts
	Tie rod ends are loose	Align and tighten tie rod ends
Vehicle speed does not reach 25 MPH	Gas Pedal out of adjustment	Back jam nut off gas pedal and screw gas pedal out. Retighten jam nut to gas pedal.
Vehicle looses ground speed without loosing engine speed	Normal condition when climbing grades as the CVT will downshift automatically allowing the engine to run in it’s horsepower band.	None required
	Drive belt is wet and slips	Rev engine in neutral for one minute
	Drive belt is worn	Replace drive belt

Torque Values Chart

Bolt Size (Inches)	Bolt Head Identification: Grade 2		Grade 5		Grade 8	
in-tpi [1]	N ·	ft-lb	N ·	ft-lb	N ·	ft-lb
1/4" - 20	7.4	5.6	11	8	16	12
1/4" - 28	8.5	6	13	10	18	14
5/16” - 18	15	11	24	17	33	25
5/16" - 24	17	13	26	19	37	27
3/8" - 16	27	20	42	31	59	44
3/8" - 24	31	22	47	35	67	49
7/16" - 14	43	32	67	49	95	70
7/16" - 20	49	36	75	55	105	78
1/2" - 13	66	49	105	76	145	105
1/2" - 20	75	55	115	85	165	120
9/16" - 12	95	70	150	110	210	155
9/16" - 18	105	79	165	120	235	170
5/8" - 11	130	97	205	150	285	210
5/8" - 18	150	110	230	170	325	240
3/4" - 10	235	170	360	265	510	375
3/4" - 16	260	190	405	295	570	420
7/8" - 9	225	165	585	430	820	605
7/8" - 14	250	185	640	475	905	670
1" - 8	340	250	875	645	1230	910
1" - 12	370	275	955	705	1350	995
1-1/8" - 7	480	355	1080	795	1750	1290
1 1/8" - 12	540	395	1210	890	1960	1440
1 1/4" - 7	680	500	1520	1120	2460	1820
1 1/4" - 12	750	555	1680	1240	2730	2010
1 3/8" - 6	890	655	1990	1470	3230	2380
1 3/8" - 12	1010	745	2270	1670	3680	2710
1 1/2" - 6	1180	870	2640	1950	4290	3160
1 1/2" - 12	1330	980	2970	2190	4820	3560

Bolt Size (Metric)	Bolt Head Identification: 5.8 Class 5.8		8.8 Class 8.8		10.9 Class 10.9	
mm x	N ·	ft-lb	N ·	ft-lb	N ·	ft-lb
M 5 X 0.8	4	3	6	5	9	7
M 6 X 1	7	5	11	8	15	11
M 8 X 1.25	17	12	26	19	36	27
M 8 X 1	18	13	28	21	39	29
M10 X 1.5	33	24	52	39	72	53
M10 X 0.75	39	29	61	45	85	62
M12 X 1.75	58	42	91	67	125	93
M12 X 1.5	60	44	95	70	130	97
M12 X 1	90	66	105	77	145	105
M14 X 2	92	68	145	105	200	150
M14 X 1.5	99	73	155	115	l215	160
M16 X 2	145	105	225	165	315	230
M16 X 1.5	155	115	240	180	335	245
M18 X 2.5	195	145	310	230	405	300
M18 X 1.5	220	165	350	260	485	355
M20 X 2.5	280	205	440	325	610	450
M20 X 1.5	310	230	650	480	900	665
M24 X 3	480	355	760	560	1050	780
M24 X 2	525	390	830	610	1150	845
M30 X 3.5	960	705	1510	1120	2100	1550
M30 X 2	1060	785	1680	1240	2320	1710
M36 X 3.5	1730	1270	2650	1950	3660	2700
M36 X 2	1880	1380	2960	2190	4100	3220

[1] in-tpi = nominal thread diameter in inches-threads per

[2] N· m = newton-meters

[3] ft-lb= foot pounds

[4] mm x pitch = nominal thread diameter in millimeters x

Torque tolerance + 0%, -15% of torquing values. Unless otherwise specified use torque values listed above.

Notes:

Land Pride Limited Warranty

Utility Vehicle

Land Pride, A Division of Great Plains Manufacturing, Inc., 1525 East North Street, Salina, Kansas, USA (hereinafter "Land Pride") warrants for a period of twelve (12) months from the date of initial retail purchase from an authorized Land Pride Utility Vehicle dealer that each new Land Pride Utility Vehicle shall be free, under normal use and maintenance, from any defect in material and workmanship subject to the following conditions, exclusions, obligations, and limitations.

1. **Coverage** Any material or workmanship found and determined to be defective by Land Pride within the (12) twelve month warranty period shall be remedied without charge for parts or labor at any authorized Land Pride Utility Vehicle dealership.
2. **Owner's Obligations** The following obligations must be fulfilled by the owner to maintain the validity of Land Pride warranty:
   k. The original owner must service the vehicle according to the periodic maintenance charts contained in the Operator's Manual as neglecting to do so can impede the warranty process. These inspections, maintenance services, and adjustments are to be performed at the owner's expense.
   l. The owner must present a copy of the warranty registration card or other positive proof of initial retail purchase date issued at the time of purchase, to an authorized Land Pride Utility Vehicle dealer at the time the warranty repairs are to be performed on the vehicle.
3. **Exclusions** The following are specifically excluded from this warranty:
   a. Any Land Pride Utility Vehicle used for rental purposes.
   b. Any Land Pride Utility Vehicle used to tow loads in excess of the maximum trailer weight specified in the Operator's Manual.
   c. Any Land Pride Utility Vehicle used to carry loads in excess of the maximum vehicle load rating including occupants and cargo as stated in the Operator's Manual.
   d. Any Land Pride Utility Vehicle that has been altered or modified without Land Pride's specific recommendation, approval, and authorization in writing.
   e. Any Land Pride accessories that are covered by the Land Pride Parts and Accessories Warranty Policy.
   f. Any Land Pride Utility Vehicle that has not been completely and properly assembled and pre-delivered by an authorized Land Pride Utility Vehicle dealer.Limitations. This warranty shall not apply to or include any of the following:
4. **Limitations** This warranty shall not apply to or include any of the following:
   a. Repair or replacement required as result of (I) accident, (II) misuse or neglect, (III) lack of reasonable and proper maintenance, (IV) repairs improperly performed or replacements improperly installed, (V) use of replacement parts or accessories not conforming to Land Pride specifications which adversely affect performance and/or durability, (VI) alterations or modifications not recommended or approved in writing by Land Pride, and /or (VII) wear and deterioration occasioned by the use of this vehicle.
   b. Pre-delivery, routine maintenance, service, and adjustments.
   c. Engine (Warranty is covered by the original engine manufacturer).
   d. Tires, belts, shocks, brakes, and body (Considered wear items).
5. **Limited Liability** The liability of Land Pride under the twelve (12) month warranty is limited solely to the remedying of defects in materials or workmanship by an authorized Land Pride Utility Vehicle dealer at its place of business during customary business hours. This warranty does not cover inconvenience, loss of use of the vehicle, or transportation of the vehicle to or from the Land Pride dealer. **Land Pride shall not be liable for any other expense, loss, or damage, whether direct, incidental, consequential, or exemplary arising in connection with the sale or use of or the inability to use the Land Pride Utility Vehicle for any purpose**. Some states, provinces or countries do not allow the exclusion or limitation of any incidental or consequential damages, so the above limitation or exclusion may not apply to you.
   a. No express warranty is given by Land Pride with respect to the Land Pride Utility Vehicle except as set forth herein. Any warranty implied by law, including any warranty of merchantability or fitness for a particular purpose, is expressly limited to the twelve (12) month warranty terms set forth herein. The foregoing statements of warranty are exclusive and in lieu of all other remedies. Some states, provinces or countries do not allow limitations on how long an implied warranty lasts, so the above limitation may not apply to you.
   b. No dealer is authorized to modify this Land Pride Utility Vehicle Warranty.
   c. Any breach of warranty claim must be brought forth within 15 months of original sale.
6. **Legal Rights** This warranty gives you specific legal rights, and you may also have other rights which vary from state, province or country.

Effective January 2, 2003

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